				C/ 162	SC 162	9.0	P 146	L 27	# 3
usted, Kent	Intel Corporat	tion		Mellitz, Rich	nard		Samtec		
omment Type TR Co	omment Status X			Comment T	уре ТЕ	com	ment Status X		
In the IEEE 802.3cd-2018 pr defined and specified in Cl 1	36.8.11.		С,		L range is lost desigr		B and 18.8 for pub	lished channels tl	nat representative of
Among other things, specific establishment between two of customer use case of "forced	levices without using C	l 73 Auto-Negoti		Suggested Set ER		7.3 dB in Tabl	e 16210		
The currently defined state n autonomously recover from a	a partner breaking fram	e lock during link	training (Note:	Proposed F	Response	Respo	onse Status O		
observed when the Clause 7 level management agent (i.e				C/ 162	SC 162	9.4	P151	L 44	# 4
link down (i.e. link never com				Mellitz, Rich	nard		Samtec		
reason is that the signals loc the SEND_TF state to the TF				Comment 7	уре ТГ	com	ment Status X		
between the two end points t are other reasons as well, no	hat the link has been re				L range is lost desigr		dB and 18.8 for pub	lished channel the	at representative of
				Suggested	Remedy				
IggestedRemedy		an this situation	Come colutions	Set ER	L (min) to	7.3 dB in Tabl	e 16213		
Update the PMD control stat		or this situation.	Some solutions	Proposed F	Response	Respo	onse Status O		
include, but are not limited to - increase the duration of the		ed that of the max	x_wait_timer (>= 12						
 increase the duration of the seconds) add monitoring of the local 	holdoff_timer to excee		、	C/ 163	SC 163	9.2	P 176	L 50	# 5
 increase the duration of the seconds) add monitoring of the local achieved 	holdoff_timer to excee and received frame loc		、			9.2	P 176 Samtec	L 50	# 5
 increase the duration of the seconds) add monitoring of the local 	holdoff_timer to excee and received frame loc		、	C/ 163 Mellitz, Rich Comment 7	hard	-		L 50	# 5
 - increase the duration of the seconds) - add monitoring of the local achieved - implement an abort signalir See presentation to be submon second se	holdoff_timer to excee and received frame loc ng mechanism	k status after the	、	Mellitz, Rich Comment 7	nard Type TF	com	Samtec		# 5
 increase the duration of the seconds) add monitoring of the local achieved implement an abort signalir See presentation to be submon the submon second seco	holdoff_timer to excee and received frame loc ng mechanism	k status after the	、	Mellitz, Rich Comment 7 We nee Suggested	nard Type TF ed to speci Remedy	com	Samtec ment Status X		# 5
 increase the duration of the seconds) add monitoring of the local achieved implement an abort signalir See presentation to be submosposed Response 	holdoff_timer to exceed and received frame loc ag mechanism itted for TF consideration sponse Status O	k status after the	initial frame lock is	Mellitz, Rich Comment 7 We nee Suggestedh Change Differer	nard Type TF ed to speci Remedy	ty V_peak/V_f	Samtec ment Status X	ilse peak loss	# [<u>5</u>
 increase the duration of the seconds) add monitoring of the local achieved implement an abort signaling See presentation to be submoposed Response Response Response 	holdoff_timer to exceed and received frame loc ag mechanism itted for TF consideration sponse Status O P213	k status after the	、	Mellitz, Rich Comment T We nee Suggestedh Change Differer To	nard Type TF ed to speci Remedy hoce betwee	Comi fy V_peak/V_f	Samtec ment Status X not V_peak. I.e. pu and reference linear	ilse peak loss fit pulse peak	
increase the duration of the seconds) add monitoring of the local achieved implement an abort signalir See presentation to be submroposed Response Read I 120F SC 120F.3.2.3 ellitz, Richard	holdoff_timer to exceed and received frame loc ag mechanism itted for TF consideration sponse Status O P213 Samtec	k status after the	initial frame lock is	Mellitz, Rich Comment T We nee Suggestedh Change Differer To Differer	nard ype TF ed to speci Remedy nce betwee nce betwee	Com fy V_peak/V_f en measured a	Samtec ment Status X not V_peak. I.e. pu and reference linear	ilse peak loss fit pulse peak	# <u>5</u> s (min) d(V_peak/V_f)
- increase the duration of the seconds) - add monitoring of the local achieved - implement an abort signalir See presentation to be submer proposed Response Read 120F SC 120F.3.2.3 Itellitz, Richard	holdoff_timer to exceed and received frame loc ag mechanism itted for TF consideration sponse Status O P213 Samtec omment Status X lifficult to achieve with	ion. <i>L</i> 31	# [2]	Mellitz, Rich Comment T We nee Suggestedh Change Differer To	nard ype TF ed to speci Remedy nce betwee nce betwee	Com fy V_peak/V_f en measured a	Samtec ment Status X not V_peak. I.e. pu and reference linear	ilse peak loss fit pulse peak	
 - increase the duration of the seconds) - add monitoring of the local achieved - implement an abort signalin See presentation to be subm Proposed Response Restand Comment Type TR Comment Type TR Comment Type Comment DFE4_RSS range be 	holdoff_timer to exceed and received frame loc ag mechanism itted for TF consideration sponse Status O P213 Samtec omment Status X lifficult to achieve with	ion. <i>L</i> 31	# [2]	Mellitz, Rich Comment T We nee Suggestedh Change Differer To Differer	nard ype TF ed to speci Remedy nce betwee nce betwee	Com fy V_peak/V_f en measured a	Samtec ment Status X not V_peak. I.e. pu and reference linear	ilse peak loss fit pulse peak	
 - increase the duration of the seconds) - add monitoring of the local achieved - implement an abort signalin See presentation to be subm Proposed Response Response Response C 120F SC 120F.3.2.3 Mellitz, Richard Comment Type TR Comment Type TR Com	holdoff_timer to exceed and received frame loc ag mechanism itted for TF consideration sponse Status O P213 Samtec comment Status X lifficult to achieve with tween 0.03 V and 0.06	ck status after the ion. <i>L</i> 31 test equipment. ⁻ 5 with a mean of	# 2 The published C2C 0.047 .	Mellitz, Rich Comment T We nee Suggestedh Change Differer To Differer	nard ype TF ed to speci Remedy nce betwee nce betwee	Com fy V_peak/V_f en measured a	Samtec ment Status X not V_peak. I.e. pu and reference linear	ilse peak loss fit pulse peak	

C/ 163 SC 163.9.2.2	2 P178	L 29	# 6	C/ 163 SC 163.9.3	.2 P181	L1	# 9
Mellitz, Richard	Samtec			Mellitz, Richard	Samtec		
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
TP0a is moot and repl	aced by TP0v				hy the receive test fixture spe	cification should b	e different from the
SuggestedRemedy				transmitter one.			
remove references to	TP0a.			SuggestedRemedy			
Proposed Response	Response Status O			Point to the transmitte	er specification for test fixture		
				Proposed Response	Response Status O		
C/ 163 SC 163.9.3	P180	L17	# 7				
Mellitz, Richard	Samtec			C/ 163 SC 163.10.	3 P186	L 41	# 10
Comment Type TR	Comment Status X			Mellitz, Richard	Samtec		
TP5a is moot and repl	aced by TP5v			Comment Type TR	Comment Status X		
SuggestedRemedy	,				ween 9.7 dB and 23.5 dB for	published channe	I that representative of
	TP5a and replace with TP5v.			100G KR designs.			
Proposed Response				SuggestedRemedy			
Fioposed Response	Response Status O			change the TBD in in	line 41 to 9.7 dB		
				Proposed Response	Response Status O		
C/ 163 SC 163.9.3	P180	L 26	# 8				
Mellitz, Richard	Samtec			C/ 163 SC 163.13.	4.4 P192	L33	# 11
Comment Type TR	Comment Status X			Mellitz, Richard	Samtec		
There is no reason wh transmitter ones.	y the receive ERL specificatio	n should be diffe	erent from the	Comment Type TR	Comment Status X		
SuggestedRemedy				TP5a is moot and rep	Diaced by TPSV		
Point to the transmitte	r specification for DERL			SuggestedRemedy			
	Response Status O			remove references to	TP5a and replace with TP5v	. Change RC2 to	DERL at TP5v

C/ 163 SC 163.13.4.3	3 P192	L 8	# 12	C/ 162 SC 162.11	P 156	L 39	# 15
lellitz, Richard	Samtec			DiMinico, Christopher	MC Commu	nications	
Comment Type TR We are not specifying E	Comment Status X ERL directly			Comment Type TR	Comment Status X		
SuggestedRemedy Change TC2 to DERL	at TP0v			Provide specification	s for Differential to common-m	node return loss 1	62.11.4
Proposed Response	Response Status O			,	uation reference in Table 162	–16—Cable asse	mbly characteristics
C/ 120F SC 120F.3.1	P 208	L 20	# 13	Add text and equation	162.11.4 Differential to com	mon-mode return	loss
Mellitz, Richard	Samtec			The differential to cor	nmon-mode return loss, in dB	b. of the cable ass	sembly shall meet
Comment Type TR	Comment Status X			Equation (xx)			
	peak/V_f not V_peak I.e. pu	se peak loss		CDRL(f)>/=			
				22-10*f/26.56, 0.05 < 15-3*f/26.56, 26.56<			
SuggestedRemedy				Where	1 = 40</td <td></td> <td></td>		
Change Difference between me	asured and reference linear	fit pulse peak		f is the frequency in C			
То		in pulse pour		See supporting prese	ntation diminico_3ck_1020.pd	df	
Difference between me	asured and reference linear	fit pulse peak los	ss (min) d(V_peak/V_f)				
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 120F SC 120F.3.2	P 2 11	L 32	# 14				
Mellitz, Richard	Samtec	-					
Comment Type TR	Comment Status X						
TP5a is moot and repla							
SuggestedRemedy							
point to Rx table in 163	line done in table 120F-1						

Proposed Response Response Status **0**

C/ 162 SC 162.11	P156	L 41	# 16	C/ 162A SC 162A.4	P 248	L 42	# 18
DiMinico, Christopher	MC Communio	cations		DiMinico, Christopher	MC Commun	ications	
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
Provide specifications for	r Differential to common-mo	de conversion	loss 162.11.5	Replace TBD with eq	uation		
SuggestedRemedy				SuggestedRemedy			
Replace TBD with equat summary.	ion reference in Table 162–	16—Cable asse	embly characteristics	ILPCBmax(fGHz)=0.9	9809*(0.471*SQRT(f)+0.1194*1	f+0.002*(f^2))	
The difference between and the cable assembly CDCL(f) - IL(f) >/=	62.11.5 Differential to comm the cable assembly different insertion loss shall meet Eq	tial to common-		for 0.01 GHz = f </= 50<br See supporting prese Proposed Response	GHz ntation diminico_3ck_1020.pd <i>Response Status</i> 0	f	
10, 0.05 = f </= 26.56<br 27-17*f/26.56, 26 < f =<br 5.75, 33.2 < f = 40<br Where f is the frequency in GH: See supporting presenta Proposed Response				Cl 162A SC 162A.4 DiMinico, Christopher Comment Type TR Replace TBD with eq	P 249 MC Commun <i>Comment Status</i> X uation	L 39 ications	# [19
Cl 162 SC 162.11.2 DiMinico, Christopher Comment Type TR Replace TBD	P157 MC Communio Comment Status X	L10 cations	# 17	for 0.01 GHz = f </= 50</td <td>.471*SQRT(f)+0.1194*f+0.002) GHz ntation diminico_3ck_1020.pd <i>Response Status</i> O</td> <td>· //</td> <td></td>	.471*SQRT(f)+0.1194*f+0.002) GHz ntation diminico_3ck_1020.pd <i>Response Status</i> O	· //	
SuggestedRemedy Replace TBD with 0.05				C/ 162B SC 162B.1.	3.6 <i>P</i> 260	L 48	# 20
Proposed Response	Response Status O			DiMinico, Christopher Comment Type TR Replace TBD SuggestedRemedy Replace TBD with 1.6 Proposed Response	MC Commun Comment Status X 5 mV Response Status O	ications	

C/ 162B SC 162B.1.3.1 P255 L35 # 21	C/ 163 SC 163.9.3.2 P181 L19 # 24
DiMinico, Christopher MC Communications	Ben-Artsi, Liav Marvell Semiconductor ltd.
Comment Type TR Comment Status X	Comment Type T Comment Status X
Modify Equation (162B–3) ILMTFMAX > 40 GHz to align with achievable MTF insertion loss	The test fixture inserrtion loss of 1.2-1.6dB is not commonly feasible
SuggestedRemedy	SuggestedRemedy
See supporting presentation diminico_3ck_1020.pdf	Recommend adjusting TP5a-TP5 fixture characteristics to be the same as those defined
Proposed Response Response Status O	for TP0-TP0a. Can either define less than 5dB of loss and ILD less than 0.2dB, or even in a simpler manner, just refer to 163.9.2.1.1 (insertion loss), 163.9.2.1.2 (ERL) and 163.9.2.1.3 (common mode RL)
C/ 162B SC 162B.1.3.2 P256 L46 # 22	Proposed Response Response Status O
DiMinico, Christopher MC Communications	
Comment Type TR Comment Status X Modify Equation (162B–6) DRL(f) > 40 GHz to align with achievable MTF return loss	C/ 163 SC 163.9.3.2 P181 L26 # 25
	Ben-Artsi, Liav Marvell Semiconductor ltd.
SuggestedRemedy See supporting presentation diminico 3ck 1020.pdf	Comment Type T Comment Status X
Proposed Response Response Status O	The differential return loss of the test fixture is defined to meet Equation (163–2) and 163- which are an incorrect reference
	SuggestedRemedy
C/ 163 SC 163.9.3.2 P181 L3 # 23	Recommend replacing with a reference to 163.9.2.1.2 (Tx test fixture ERL)
Ben-Artsi, Liav Marvell Semiconductor ltd.	Proposed Response Response Status O
Comment Type E Comment Status X	
According to direction of the entire path, TP5a is the input to the test fixture and not the output	C/ 163 SC 163.9.2.2 P178 L39 # 26
SuggestedRemedy	Ben-Artsi, Liav Marvell Semiconductor Itd.
Change: "Unless otherwise noted, measurements of the receiver are made at the output of	Comment Type T Comment Status X
a test fixture (TP5a) as shown in Figure 163–5." to: "Unless otherwise noted, measurements of the receiver are	The transmitter and reciever test fixture informative examples are irrelevant, since they have extremely low loss
made at the input of a test fixture (TP5a) as	SuggestedRemedy
shown in Figure 163–5 "	Recommend changing equation 163.1 to IL(F) = 0.01+0.292*sqrt(F)+0.0936*F (F in GHz)
shown in Figure 163–5." Proposed Response Response Status O	which is more realistic and meets 4dB of loss at 26.5625GHz. It is also refered to in 163.9.3.2 on page 181 lines 22-24

C/ 93A SC 93A.1	P195	L 24	# 27	C/ 163	SC 163.9.2	P176	L 44	# 29
lealey, Adam	Broadcom Inc.			Healey, Ada	m	Broadcom Inc.		
Comment Type E	Comment Status X			Comment T	/pe T	Comment Status X		
this change to the pa parameter table in IE	his context and does the descripti arameter name, should it persist, EEE Std 802.3 and not just the or bes not seem worthwhile since the e.	should be propersion should be propersion of the should be be be been should be been should be been should be be	bagated to every COM modified by this	written t the clau clause, requiren	o be generic a se that invoke or in Annex 12 nents", electric	A.3.2.2 is in danger of becoming and states that PHY/interface-sp s this method". However, no su 20F, that provides this informati cal characteristics used to comp	becific paramet ich specificatio on. This includ pute S^(tp), val	ters are "specified by ns can be found in thi es "test channel ues for Tr, fr, At, Tb,
uggestedRemedy						e that "test channel" requireme 3.9.2.1, and the other values ar		
	the description of this parameter 11, and 120F-7 accordingly.	(i.e., undo the	change). Update	COM fro or test 2	om 163.10.1, k (or test 1 AN	out this should not be left to ass D test 2) characteristics for S^(umptions. It is	unclear whether test 1
Proposed Response	Response Status O			point ne	eds to be prov	vided.		
				SuggestedF				
C/ 93A SC 93A.1 lealey, Adam	P195 Broadcom Inc.	L 24	# 28	"dvpeak the PMI	" to this new s D/interface-spe	to Clause 163 and change the subclause. The content of this s ecific parameters that Annex 16 his method". Similar changes w	ubclause shou 3A says are to	Id be specifications for be defined by the
Comment Type E 93A.1.2 exists in this	Comment Status X			Proposed R		Response Status O	ould be neces	Sary for Annex 1201.
SuggestedRemedy Add a cross-reference	ce link.			C/ 163A	SC 163A.2	P281	L 4	# 30
Proposed Response	Response Status O			Healey, Ada	m	Broadcom Inc.		
	, -			Comment T	/pe E	Comment Status X		
				"test fixt channel	ure" requirem	uirements are not defined by the ents might be. It seems like this nel" are used. The same entity	s is the only pla	ce "transmitter test
				SuggestedF	emedy			
				Change test fixtu	the title of 16 re is between	3A.2 to "Test fixture" and repla test points TP0 and TP0v as s cified by the clause that invokes	hown in Figure	
				Proposed R	esponse	Response Status 0		
				•	-			

C/ 163 SC 163.9	.2.3	P179	L39	# 31	C/ 93A S	SC 93A.5.1		P 202	L 41	# 34
lealey, Adam		Broadcom Inc.			Healey, Adam			Broadcom Inc		
Comment Type T	Comme	nt Status X			Comment Type	e E	Comment	Status X		
It seems that "T_fx' embedded and not				the test fixture is to be				58a) is unecess he Tukey windo		assume it is intended to n tw = 1.
SuggestedRemedy					SuggestedRer	nedy				
Replace the following "The value of T_fx in the value of t				rom TP0 to TP0v." with for 120F.3.1.1.	states that	t H_tw(f) is de	efined by Equa	ation (93-58a) w	hen tw is 1 and	Add a sentence that I H_tw(f) is 1 when tw is
Proposed Response	Respons	e Status O			Proposed Res				n the variable lis	st (page 203, line 12).
					Proposed Res	ponse	Response	Status U		
C/ 163 SC 163.9	.2.3	P 179	L 44	# 32						
lealey, Adam		Broadcom Inc.				SC 163A.3.1		P 281	L 25	# 35
Comment Type E	Comme	nt Status X			Healey, Adam			Broadcom Inc		
"The reference for o	obtaining the re	ference ERL is def	fined in 163A.3.	1." is an awkward	Comment Type		Comment			
sentence.					In Figure 1	163A-2, termi	ination resista	ince at TP0v sho	ould represent a	an instrument and not a
SuggestedRemedy					device (i.e	., it should be				evice resistance R_d).
120F.3.1.1 has son				changed to match. At a	device (i.e SuggestedRer	., it should be nedy	e the reference			
120F.3.1.1 has son minimum, change t	he sentence to:	The reference tra		changed to match. At a s defined in 163A.3.1."	device (i.e <i>SuggestedRer</i> Replace "f	., it should be <i>nedy</i> R_0" with "R_	e the reference _d".	e resistance R_		
	he sentence to:				device (i.e SuggestedRer	., it should be <i>nedy</i> R_0" with "R_	e the reference	e resistance R_		
120F.3.1.1 has son minimum, change t Proposed Response	he sentence to: Respons	The reference tra			device (i.e SuggestedRer Replace "f Proposed Res	., it should be <i>nedy</i> R_0" with "R_	e the reference _d". <i>Response</i> (e resistance R_		
120F.3.1.1 has son minimum, change t Proposed Response	he sentence to: Respons	: "The reference tra e Status O	ansmitter ERL is	s defined in 163A.3.1."	device (i.e SuggestedRer Replace "f Proposed Res	., it should be nedy R_0" with "R_ ponse SC 163A.3.1.	e the reference _d". <i>Response</i> (e resistance R_	0 and not the d	evice resistance R_d).
120F.3.1.1 has son minimum, change t Proposed Response Cl 120F SC 120F. Healey, Adam	he sentence to: Respons 3.1.1	"The reference tra e Status O P209	ansmitter ERL is	s defined in 163A.3.1."	device (i.e SuggestedRer Replace "H Proposed Res Cl 163A	., it should be nedy R_0" with "R_ ponse SC 163A.3.1.	e the reference _d". <i>Response</i> (e resistance R_ Status O P 281 Broadcom Inc	0 and not the d	evice resistance R_d).
120F.3.1.1 has son minimum, change t Proposed Response Cl 120F SC 120F. Healey, Adam	he sentence to: Respons 3.1.1 Comme	"The reference tra e Status O P 209 Broadcom Inc. nt Status X	ansmitter ERL is	s defined in 163A.3.1."	device (i.e SuggestedRer Replace "F Proposed Res Cl 163A S Healey, Adam Comment Type Equation (., it should be nedy R_0" with "R_ ponse SC 163A.3.1. e T 93-17) define	e the reference _d". <i>Response</i> .1 <i>Comment</i> es GAMMA1 a	e resistance R_ Status O P 281 Broadcom Inc Status X and GAMMA2 to	0 and not the d	evice resistance R_d). # <u>36</u> urthermore a function of
120F.3.1.1 has son minimum, change t Proposed Response Cl 120F SC 120F. Healey, Adam Comment Type E The parameter is d SuggestedRemedy	he sentence to: <i>Respons</i> 3.1.1 <i>Comme</i> efined to be "dE	"The reference tra e Status O P209 Broadcom Inc. nt Status X ERL" and not "[DEI	ansmitter ERL is	s defined in 163A.3.1."	device (i.e SuggestedRer Replace "F Proposed Res Cl 163A S Healey, Adam Comment Type Equation (Rd. The te	., it should be nedy R_0" with "R_ ponse SC 163A.3.1. e T 93-17) define ermination at	e the reference _d". <i>Response</i> .1 <i>Comment</i> es GAMMA1 a	E resistance R_ Status O P281 Broadcom Inc Status X and GAMMA2 to uld represent ar	0 and not the d	evice resistance R_d).
120F.3.1.1 has son minimum, change t Proposed Response Cl 120F SC 120F. Healey, Adam Comment Type E The parameter is de SuggestedRemedy Update the name to	he sentence to: <i>Respons</i> 3.1.1 <i>Comme</i> efined to be "dE o be consistent.	The reference tra e Status O P 209 Broadcom Inc. nt Status X RL" and not "[DEI	ansmitter ERL is	s defined in 163A.3.1."	device (i.e SuggestedRer Replace "F Proposed Res Cl 163A S Healey, Adam Comment Type Equation (Rd. The te	., it should be nedy R_0" with "R_ ponse SC 163A.3.1. e T 93-17) define ermination at defined to be	e the reference _d". <i>Response</i> - .1 <i>Comment</i> es GAMMA1 a the TP0v shot	E resistance R_ Status O P281 Broadcom Inc Status X and GAMMA2 to uld represent ar	0 and not the d	evice resistance R_d). # <u>36</u> urthermore a function of
120F.3.1.1 has son minimum, change t Proposed Response Cl 120F SC 120F. Healey, Adam Comment Type E The parameter is d SuggestedRemedy	he sentence to: <i>Respons</i> 3.1.1 <i>Comme</i> efined to be "dE o be consistent.	"The reference tra e Status O P209 Broadcom Inc. nt Status X ERL" and not "[DEI	ansmitter ERL is	s defined in 163A.3.1."	device (i.e SuggestedRer Replace "F Proposed Res Cl 163A S Healey, Adam Comment Type Equation (Rd. The te be better of SuggestedRer Change th function, H using Equ set to 0. Ir [Ohms] an	., it should be nedy R_0" with "R_ ponse SC 163A.3.1. e T 93-17) define ermination at defined to be nedy le first paragr I_21(f) from t ation (93A-18 D Equation (93	e the reference _d". <i>Response</i> . .1 .1 <i>Comment</i> es GAMMA1 a the TP0v shor R0 independe raph of 163A.3 the scattering 3) where GAM 3A-17), the sir	Exercesistance R_ Status O P281 Broadcom Inc Status X and GAMMA2 to uld represent ar ent of Rd. 3.1.1 to the follor parameters of ti IMA1 is given by ngle-ended refe	0 and not the d	evice resistance R_d). # <u>36</u> urthermore a function of

163A	SC 1	63A.3.1.2	P 282	L 30	# 37	C/ 163A	SC	163A.3.1.1	P 282	L 25	#
aley, Adan	m		Broadcom Inc.			Healey, Ad	am		Broadcom Inc.		
nment Typ	/pe	т	Comment Status X			Comment	уре	т	Comment Status X		
			quation (93A-59) do not calcu p required to obtain the reflect						ten to be generic so citing the formation of the formatio		

where R d is not equal to R 0. Also, the value of T fx should be 0.

SuggestedRemedy

Replace the contents of 163A.3.1.2 with the following: "The reference reflection coefficient at TP0v is given by Equation (93A-7) where $[s_22]^{(x)}$ is GAMMA1 as defined by Equation (93A-17) and $[s_ji]^{(y)}$ are the components of the scattering matrix of the virtual reference channel S^(0). In Equation (93A-17), the single-ended reference resistance R_0 is set to 50 [Ohms] and the single-ended termination resistance, R_d, specified by the clause that invokes this method. The referece pulse time-domain reflection (PTDR) response is computed from the referece reflection coefficient at TP0v using Equation (93A-58) and Equation (93A-59). The reference ERL value is determined from the reference PTDR response using the method in 93A.5.2 with T_fx set to 0 and other parameters specified by the clause that invokes this method."

Proposed Response Response Status O

C/ 163A	SC 163A.3.1.1	P 282	L 18	# 38
Healey, Ada	am	Broadcom Inc.		

Comment Type E Comment Status X

In Equation (163A-3), the upper limit of the summation (N_v) should have a capital "N". In addition, the unit interval symbol (T_b) should have a capital "T".

SuggestedRemedy

Fix the typos.

Proposed Response Response Status O

Now that the transmitter has relaxed test fixture requirements and taken a "test fixture embedding" approach, it seems appropriate for the receiver to follow suit.

P180

Broadcom Inc.

L34

40

Response Status 0

Comment Status X

Change the definition of N v to the following: "represents the number of symbols to include

in the steady state voltage calculation". Add a sentence that the value of N v is defined by

SuggestedRemedy

may employ this method?

the clause that invokes this method.

SC 163.9.3.1

Т

SugaestedRemedv

Proposed Response

C/ 163

Healey, Adam

Comment Type

Update 163.9.3.2 by changing references to "TP5a" to "TP5v" and add a pointer to 163.9.2.1 for test fixture requirements. Replace the specification of "ERL (min)" in Table 163-9 with a specification of "dERL" as is done for the transmitter and update 163.9.3.1 accordingly. Implement similar changes in Annex 120F. Update Annex 163A to include calculation of the reference ERL at TP5v (which should largely be a "mirror image" of the material currently describing the calculation of the reference ERL at TP0v). For interference tolerance and jitter tolerance test channel calibration, exceptions to 93A.2 and Annex 93C would need to be made to substitute TP0 to TP0v (and TP5v to TP5) replicas for their TP0 to TP0a (And TP5a to TP5) counterparts.

Proposed Response Response Status **O**

41

C/ 120G	SC 120G.3.1	P 226	L17	#
Healey, Ada	m	Broadcom Inc.		
о <i>к</i> т	_			

Comment Type т Comment Status X

ESMW (eve symmetry mask width) is "TBD". Similarly, eve width specifications for stressed input parameters are also "TBD". These parameters will be difficult to define for a reference receiver that includes decision feedback equalization unless the behavior of the feedback signal in the vicinity of the threshold crossings is clearly defined. However, there are other, simpler means to enforce that the reference receiver output has a useable eve width. The most straight-forward implementation for this draft is to expand on a feature of the eve height and vertical eve closure measurement procedure referred to in 120G.5.2 item h). This items points to 120E.4.2 and 120E.4.3 for the method to measure eve height. vertical eye closure, and other parameters. Step 4) in 120E.4.3 states that the distribution of the signal voltage (from which eye height and vertical eye closure are derived) is to be measured over a window "within 0.025 UI of time TCmid". This essentially averages the distribution over the time window or, thought of a different way, is similar to having a uniform iitter distribution around TCmid. Use of such a window reduces the measured eve height and vertical eve closure for signals with narrower eve widths. The width of the window can be increased to provide higher degrees of protection.

SuggestedRemedy

Remove references to ESMW and eve height from Annex 120G. Change 120G.5.2 item h) to the following: "From the eye diagram, compute eye height and vertical eye closure using the methodologies defined in 120E.4.2 and 120E.4.3 with the following exceptions. The value of TCmid is set to the sampling phase t s determined in step d) (skipping steps 1) through 3) from 120E.4.2). The CDFs of the signal voltages computed in 120E.4.2 steps 4) through 6) are the average values over the time interval t s-0.05 UI to t s+0.05 UI. The feedback coefficients b(n) determined in step d) are constant over the averaging time interval."

Note that eye height and vertical eye closure limits may need to be adjusted to account for the reductions to these values via the averaging window.

Proposed Response

Response Status 0

C/ 163	SC 16	3.9.2	P176	L 35	# 42
Healey	Adam		Broadcom Ind	с.	
-	_				

Comment Type T Comment Status X

The signaling rate range can be reduced to +/-50 ppm with minimal impact to the overall cost of the system. A lower signaling rate range can be leveraged by implementations to improve performance margin. However, interoperability with implementations that use 50 Gb/s/lane (and lower) AUIs must be preserved. The proposed changes encourage migration to higher-precision frequency references while maintaining compability with prior implementations with up +/-100 ppm tolerance.

SugaestedRemedv

This proposed change leverages terms from Clause 45 that describe how MDIO manageable devices are organized in the Physical Laver stack. The first is the idea that sublavers may be in the same "package" or in different packages (see IEEE Std 802.3-2018 45.1.1). The definition of a "package" is vendor specific (could be a chip, module, or other entity). The second is that a PMA that is not in the same package as the PMD is designated as a "separated PMA" (see IEEE Std 802.3-2018, 45.2.1). The third concept that is important to the proposed definition is that a PMA, by itself, has no control over the signaling rate tolerance. The frequency offset at the PMA output is inherited from the PMA input. Since the PMA has no control over this. It does not make sense to impose a specification on the PMA signaling rate range except for specific circumstances. Similar arguments can be made for PMD outputs as they inherit the frequency precision from the PMA.

In Table 162-9, Table 163-5, Table 120F-1, and Table 120G-1, change "signaling rate" (or "signaling rate per lane (range)") to 53.125 +/- 50 ppm and add a footnote to indicate 1) that the +/-50 ppm tolerance applies to PMA (and PMD) that are is the same package as the PCS and 2) that in other cases, the signaling rate is related to the signaling rate from the higher (separated PMA) sublaver.

In Table 120G-3, change "signaling rate per lane (range)" to "signaling rate per lane" with a value of 53.125. In 120G.3.1.1 (and/or a footnote to Table 120G-3), state the signaling rate tolerance at the module output is inherited from the PMD receiver input.

Also change 120G.3.1.1 to agree with changes Table 120G-1 and Table 120G-3.

No change to the input signaling rate range requirements in Table 162-12. Table 120G-4. and Table 120G-7 is needed because they continue to represent the largest extent of the signaling rate range for all allowed configurations of the Physical Layer stack.

Add a recommendation (to either Annex 120A or Annex 135A) that the signaling rate tolerance of the output of a "legacy" PCS/PMA (interface is not 100GAUI-1, 200GAUI-2, or 400GAUI-4) be constrained to +/-50 ppm when used with a separated PMA that has a 100GAUI-1, 200GAUI-2, or 400GAUI-4 interface.

Proposed Response Response Status 0

lavick, Jeff Broadcom bornment Type TR Comment Status X We've added a footnote stating that the new PRESETs are PHY dependent support, so is Incorrect cross reference 'Figure 162-3' UtggestedRemedy Add a footnote to Tables 45-103a, 45-103c, and 45-104d attached to the Coefficient Select and Coefficient Select Echo text stating 'Support for a given coefficient is PHY dependent.* roposed Response Response Status O V1 f62 SC 162.9.3.1.5 P150 L20 # [44] Comment Type T Comment Status X When testing how small you can make the signal there is no constraint on the other tap settings. Incl CC Ut f62 SC 162.9.3.1.5 P150 L20 # [44] Comment Type T Comment Status X When testing how small you can make the signal there is no constraint on the other tap settings. C(C) for c(0), PRESET 2 in Table 162-31.5. Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)'' for c(0), Status X Add the following to the status X Change should also be applied in 162-9.3.1.5. V162 SC 162.9.3.1.5 P150 L20 # [45] Tand: c()'' Toposed Response Response		.135a <i>P</i> 54	L11	# 43	C/ 162	SC 162.1	P133	L17	# 46
bornment Type TR Comment Status X We we added a footnote stating that the new PRESETs are PHY dependent support, so is (C3) We we added a footnote to Tables 45-103a, 45-103b, 45-103c and 45-104d attached to the Coefficient Select and Coefficient Select Echo text stating "Support for a given coefficient is PHY dependent." Whe pendent." Whe testing how small you can make the signal there is no constraint on the other tap settings. Uggested/Remedy Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" the following to the same status X the following to the same status X tuggested/Remedy Add the following to the same status X tuggested/Remedy house the following to the same status X <			<i>L</i>	# 43		00 102.1		L 17	# 40
We've added a footnote stating that the new PRESETs are PHY dependent support, so is C(-3). Incorrect cross reference 'Figure 162-3' We've added a footnote is tables 45-103a, 45-103b, 45-103c and 45-104d attached to the Coefficient Select and Coefficient Select Echo text stating "Support for a given coefficient is reported at a control to tables 45-103a, 45-103b, 45-103c and 45-104d attached to the Coefficient Select Echo text stating "Support for a given coefficient is reported at a control to tables 45-103a, 45-103b, 45-103c and 45-104d attached to the Coefficient Select Echo text stating "Support for a given coefficient is reported at a control to tables 45-103a, 45-103b, 45-103c and 45-104d attached to the Coefficient Select Echo text stating "Support for a given coefficient is reported at the Coefficient Select Echo text stating "Support for a given coefficient is reported to the Coefficient Select Echo text stating to the stating the maximum value at minimum state should be no higher than 0.5. C(1 162 SC 162.9.3.1.5 P150 L20 # [44 Comment Type T Comment Type T Comment Status X When testing how small you can make the signal there is no constraint on the other tap settings. Suggested/Remedy Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" Figs Sc 162.9.3.1.5 P150 L20 # [45 Suggested/Remedy Change 5.5 (162.9.3.1.5 P150 L20 Maxik, Jeff Broadcom Fin adder of the ranges tests was +1, -1, -2, -3 prior t	*					De F			
SuggestedRemedy Add a footnote to Tables 45-103a, 45-103b, 45-103c and 45-104d attached to the Coefficient Select and Coefficient Select Echo text stating "Support for a given coefficient is PHY dependent." SuggestedRemedy // 162 SC 162.9.3.1.5 P150 L20 # [4] // 162	We've added a foot		ETs are PHY dep	pendent support, so is	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
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2 It 162 SC 162.9.3.1.5 P 150 L 20 # 44 lavick, Jeff Broadcom comment Type TR Comment Status X When testing how small you can make the signal there is no constraint on the other tap settings. Withen testing how small you can make the signal there is no constraint on the other tap settings. COMMENT Type T Comment Status X UggestedRemedy Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" Add the following to the start of the sentence Type E Comment Status X V fe2 SC 162.9.3.1.5 P 150 L 20 # 45 lavick, Jeff Broadcom E Comment Status X Comment Type E Comment Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descurding list. Wove the requirement for testing c(0) range to be the third paragph (between +1 and -1)	Proposed Response	Response Status O			C/ 162	SC 162.9.3	P146	L 42	# 47
 Iavick, Jeff Broadcom Comment Type TR Comment Status X When testing how small you can make the signal there is no constraint on the other tap settings. CuggestedRemedy Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" Change should also be applied in 162.9.3.1.5. Also applies to KR, Table 163-5 (163.9.2) and to AUI-C2C, Table 120F-1 (120F.3.1.1) which should work over lower-loss channels. SuggestedRemedy Change Status O Change Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. SuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1) 	C/ 162 SC 162.9	.3.1.5 <i>P</i> 150	L20	# 44		e T			
Comment Type TR Comment Status X When testing how small you can make the signal there is no constraint on the other tap settings. UggestedRemedy Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" Proposed Response Response Status O Ch 162 SC 162.9.3.1.5 P 150 L 20 # 45 lavick, Jeff Broadcom Comment Type E Comment Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. LauggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1)									
Add the following to the start of the sentence "With c(-3), c(-2), c(-1) and c(1) set to zero and c(0)" Also applies to KR, Table 163-5 (163.9.2) and to AUI-C2C, Table 120F-1 (120F.3.1.1) which should work over lower-loss channels. Proposed Response Response Status O Also applies to KR, Table 163-5 (163.9.2) and to AUI-C2C, Table 120F-1 (120F.3.1.1) which should work over lower-loss channels. SuggestedRemedy Ch 162 SC 162.9.3.1.5 P 150 L 20 # 45 Iavick, Jeff Broadcom Forment Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. O PuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1) Content Status Status C O	When testing how s		ere is no constra	aint on the other tap	value, the	e maximum va	alue at minimum state should	`	1,
Proposed Response Response Status O SuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1) SuggestedRemedy		the start of the sentence "With	c(-3), c(-2), c(-1)	and c(1) set to zero				JI-C2C, Table 12	20F–1 (120F.3.1.1)
2/ 162 SC 162.9.3.1.5 P 150 L 20 # 45 lavick, Jeff Broadcom comment Type E Comment Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. Broadcom SuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1)	Proposed Response	Response Status 0			00	,	all places listed in the comm	ent.	
lavick, Jeff Broadcom Comment Type E Comment Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. FuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1)	CI 162 SC 462.0	245 0450	/ 20	# 45	Proposed Rea	sponse	Response Status 0		
Comment Type E Comment Status X The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. SuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1)			L 20	# 43					
The order of the ranges tests was +1, -1, -2, -3 prior to add 0, but we placed 0 at the end instead of in it's position in the descending list. SuggestedRemedy Move the requirement for testing c(0) range to be the third paragph (between +1 and -1)	,								
Move the requirement for testing c(0) range to be the third paragph (between +1 and -1)	The order of the rar	nges tests was +1, -1, -2, -3 prio	r to add 0, but we	e placed 0 at the end					
	SuggestedRemedy Move the requirement	ent for testing c(0) range to be th	e third paragoh	(between +1 and -1)					
	Proposed Response		e and paragpin						

	SC 162.9.3	P146	L 48	# 48	C/ 162	SC	162.9.3.1.4	P149	L 43	# 50
Ran, Adee	Э	Intel			Ran, Adee			Intel		
Comment	Туре Т	Comment Status X			Comment	Туре	Е	Comment Status X		
		of 0.019 UI (less than 360 f					sel is –3, –2 phrase.	2, -1, 0, or 1," - the list inc	cludes all possible	values, so there is n
	nitters tested in la nging channels.	b environment. The same pa	arts showed goo	d link performance over	Suggested Delete		dy loted phrase	2		
		s difficult to meet and not too can be tolerated by existing r		teroperability. It seems	Proposed I		•	Response Status O		
		le generations of NRZ PMDs is not defined at all.	the allowed EC	J is 0.035 UI; for C2M	C/ 162	SC	162.9.3.1.5	P 150	L 20	# 51
Also a	applies to KR. Tab	le 163-5 (163.9.2) and to AL	JI-C2C. Table 12	20F–1 (120F.3.1.1)	Ran, Adee			Intel		
	dRemedy				Comment	,,	Е	Comment Status X		
00		dd jitter, pk-pk" change "valu	e" from 0.019 to	0.035, in all places	(0) is s	et in it	alics			
	in the comment.	, , , , , , , , , , , , , , , , , , , ,			Suggested	Reme	dy			
Proposed	Response	Response Status 0			set to u	upright				
					Proposed I	Respo	nse	Response Status O		
C/ 162	SC 162.9.3	P147	L1	# 49						
Ran, Adee	Э	Intel								
Comment	Туре Т	Comment Status X								
		portant information for measure comment on the table (it do								
Suggestee	dRemedy									
		nstead add an informative No Ild also be used for 120F).	OTE in 162.9.3.3	3 (which is referred to						
by cla	delete footnote e i	n Table 163-5.								

C/ 162	SC 162.9.3.3	P150	L 40	# 52	C/ 120F	SC	120F.3.1	P 208	L14	# 54
Ran, Adee		Intel			Ran, Adee			Intel		
Comment T	уре Т	Comment Status X			Comment	Туре	Е	Comment Status X		
		.8.2 is very specific about us	•		Refere points			ne table should be the subcla	use that specifie	es parameters and
		of even-odd jitter with PRB rger values compared with s			Suggested Change		,	ERL in table 120F-1 from 163	3A.3.2.2 to 120F	3.1.1.
a meas	urement artifact.	nherently a high frequency e The considerations mention measurements at this signal	ed in NOTE 1 of		Proposed I	Respor	nse	Response Status O		
lf a dev	ice can be tested	d with a shorter pattern which	n enables calcula	ation of even-odd jitter,	C/ 120F	SC	120F.3.1.	I P 209	L 6	# 55
the mea	asurement can b	e made more accurate; such	n results should b	be acceptable.	Ran, Adee			Intel		
The cor	nment also appli	es to 120F.3.1.3.			Comment	Туре	Е	Comment Status X		
SuggestedF					Delta s	ign ap	pears here	e (ΔERL) but the difference to	erm is called dE	RL.
00		tion in 162.9.3.3:			Also or	n line 2	26			
	attern that inclue	en-odd jitter measurement m des the 12 possible transition			Suggested Chang Proposed F	e Delta	a to d in bo	th cases. Response Status O		
In 120F 162.9.3		ne cross-reference for EOJ r	neasurement fro	m 120D.3.1.8.2 to	 C/ 120F	SC	120F.3.1.	I P 209	L 4	# 56
Proposed R	esponse	Response Status O			Ran. Adee	00	1206.3.1.	Intel	L 4	# 50
					Comment 7	Tvne	Е	Comment Status X		
C/ 93A	SC 93A.1.2.3	P 199	L14	# 53	Subcla	use he	_	ansmitter effective return loss	" should be con	sistent with
Ran, Adee		Intel			Suggested	Remed	dy			
Comment T		Comment Status X			Change	e head	ling to "Tra	insmitter ERL".		
		a typo - denominator should	be a sum (as in	equation 93A-12).	Proposed I	Respor	nse	Response Status 0		
SuggestedF										
0	e "-" to "+" in the									
Proposed R	lesponse	Response Status O								

/ 163A SC 163A.3.1.1	P 282	L 5	# 57	C/ 163A SC 163A	A.3.2.2 P283	L12	# 59
an, Adee	Intel			Ran, Adee	Intel		
omment Type E	Comment Status X			Comment Type E	Comment Status X		
In "Tr" r should be in sub	oscript.			Both ERL(ref) and	ERL(meas) in equation 163A-6	are undefined terr	ns.
uggestedRemedy				SuggestedRemedy			
per comment.				Add below the equ	ation		
roposed Response	Response Status 0			"Where			
				ERL(ref) is the ER	L reference value defined in 163 measured Effective return loss"	3A.3.1.2	
/ 163A SC 163A.3.1	P 281	L 40	# 58	Proposed Response	Response Status 0		
an, Adee	Intel						
omment Type T	Comment Status X						
	ers for the reference packag			C/ 163 SC 163.9		L 44	# 60
method in 93A.1.2, with method"	electrical characteristics spe	ecified in the cla	use that invokes this	Ran, Adee	Intel		
				Comment Type E	Comment Status X		
Typically there are two re Rx. It is not stated which	eference package for the Tx one should be used.	and two possib	ly other ones for the	points to the anne	L in the table should be the subo x.	clause that specifie	es parameters and
A DUT should be allowe	d to be as "bad" as the wors	t of the two refe	rence packages for any	SuggestedRemedy			
of the parameters.				Change reference	for dERL in Table 163-5 from 1	63A.3.2.2 to 163.9	9.2.3.
	this should be stated separa RL (although the same rule a			Proposed Response	Response Status O		
uggestedRemedy			,				
Add a sentence in 163A. is the peak value of h(t)"	.3.1.1 after the paragraph "T	he reference pu	lse response peak ()				
such as the following:							
	sts more than one set of refe with each set, and the minir						
Add a similar sentence :	at the end of 163A.3.1.1 (afte RL reference).	er the definition	of v_f(ref)) and at the				
end of 163A.3.1.2 (for El							

C/ 163	SC 163.9.2	P176	L 44	# 61	C/ 163	SC 163.9.2	2	P177	L 5	# 63
Ran, Adee		Intel			Ran, Adee	•		Intel		
Comment T	<i>ур</i> е т	Comment Status X			Comment	Туре Е	Comment	Status X		
Table 1	63-5 has multip	le TBDs.			abs ste	ep size " for c(-	–3), c(–2), c(–1)	, c(0), and c(1)"	1	
		d v_peak are calculated with his model, so the limit values			This lis		oossible values,	so it is redunda	ant. Clause 162	has "for all taps"
		e degraded by a device or pac aunch voltage and some equa			Suggested Chang		vords to "for all t	aps", both for m	nin and for ax.	
minimu	m of 0 V may b	e acceptable.			Proposed	Response	Response	Status O		
		vard method to improve ERL.								
implem be acce	,	ninimum dERL should be less	than 0 dB. A m	inimum of -3 dB may	C/ 163	SC 163.9.2	2.1.1	P 177	L 48	# 64
Suggested	Remedy				Ran, Adee	•		Intel		
Change	e value for dv_f	in Table 163–5 from TBD to 0).		Comment	Туре Т	Comment	Status X		
Change	value for dv . p	eak in Table 163–5 from TBD	to 0		ILD de	efinition in 93A.	4 should be cros	ss referenced.		
Ū		in Table 163–5 from TBD to							lly the transition (larger than the	time Tt, which should internal value).
Proposed F	Response	Response Status O			Suggested	Remedy				
							ss deviation is ca s are taken fron			where T_t is 0.1 ns,
C/ 163	SC 163.9.2	P 176	L 48	# 62	Proposed	Response	Response	Status O		
Ran, Adee		Intel								
Comment 7	51	Comment Status X								
dv_f an calculat		directly to 163A.3.2.1, but so	me parameters	are missing for the						
		rom table 163-11 (or specify a ximum value from table 163-		V)						
Suggested	Remedy									
dv_f an		162.9.2 (similar to 163.9.2.3 nat subclause, point to 163A.3 comment.								
Proposed F	Response	Response Status 0								

V 163 SC 163.9.2	1.2 P178	L 21	# 65	C/ 163	SC 163.9.3.1	P180	L 33	# 67
an, Adee	Intel			Ran, Adee		Intel		
Comment Type T	Comment Status X			Comment T	<i>уре</i> т	Comment Status X		
Per resolution of com ERL:	ment 154 against D1.2 there	should be a requi	rement on test fixture			163A can be used for receive ce from a reference value.	r ERL just like it	is for transmitter ERL
"The ERL at TP0v sh	all be greater than or equal to	TBD".				ver, there may be a tradeoff e receiver should be allowed		
This part has not bee	n implemented.			minimu	m dERL should	be lower than for the receive	er.	
	f the test fixture is expected to me as in clause 137) if there		he TBD may be		num dERL of -5 tive (recommen	dB may be acceptable. Alte adation).	rnatively, dERL o	can be made
uggestedRemedy				Also ap	plies to 120F.3.	2.1.		
Add the following sen	tence after the table"			Suggested	Remedy			
"The ERL at TP0v sh	all be greater than or equal to	TBD dB".		Change	e receiver ERL s	sublcause (163.9.3.1) to mate	ch 163.9.2.3.	
Consider changing TI	3D to 15 dB.			In Table	e 163-9, change	ERL (min) to dERL(Min) wit	h value -5 dB.	
roposed Response	Response Status 0			Change	e subclause 120	F.3.2.1 to match 163.9.3.1 (apply the change	e above).
				-				· · · · · · · · · · · · · · · · · · ·
163 SC 163.9.2	3 P179	L 43	# 66	In Table	e 120F-4, chang	ge ERL (min) to dERL(Min) w	ith value -5 dB.	
an, Adee	Intel	•		Conside (should	00	dERL from a normative spec	ification (shall) to	o a recommendation
<i>comment Type</i> E "The reference for ob	Comment Status X taining the reference"			Proposed R	Response	Response Status O		
uggestedRemedy Change to "The meth	od for obtaining the reference	11		C/ 163	SC 163.9.3.2	P181	L3	# 68
oposed Response	Response Status O			Ran, Adee		Intel		
				Comment T	<i>уре</i> т	Comment Status X		
						fined here is not realistic (IL build be similar to the transmi		
				Suggested	Remedy			
				Chage	the receiver test	t fixture subclause (163.9.3.2	2) to match 163.9	9.2.1 or point to it.
				Proposed R	Response	Response Status 0		

C/ 163	SC 163.9.3.2	P181	L 3	# 69	C/ 163	SC 163.9	.3.3	P181	L 42	# 71
Ran, Adee		Intel			Ran, Adee			Intel		
Comment	Гуре Е	Comment Status X			Comment 7	⁻ уре т	Со	mment Status X		
		characteristics should be de the transmitter. Currently Re						calculation of A_DD,		
S <i>uggested</i> Move s	-	3.2 before 163.9.3.1.						only has an ERL spec, ate ERL for TP5 replic		ed from TP0v towards N=20 UI).
Proposed I	Response	Response Status O			practica	ally part of th	e DUT. TI	ge is typically controlle nerefore we should no nt and even incorrect f	t add ERL specifi	cations for the TP5
C/ 163 Ran, Adee	SC 163.9.3.3	P 181 Intel	L 34	# 70				a transmitter's test fixto ward TP0v.	ure where ERL is	specified toward the
	ception that "trar	Comment Status X smitter equalization is config 0D) which does not have a t			Instead 163.10		annel's EF	RL should be specified	to meet the ERL	specifications in
This cl	ause is for the KI	R PMD that does have a trai	ning protocol de		93C-4	measured a	t TP5 repli	m b which has "The re ica towards TPt meets return loss specificatio	the return loss s	pecifications in
Suggested	Remedy				Suggested	Remedy				
		ith the exception that transm 0.3.2.3) to the settings that p				e item b with urn loss of t		Ū	5a towards TPt m	neets the requirements
Proposed I	Response	Response Status O			in 163.					
					Apply s	imilar chang	e in 120F	.3.2.3 with the reference	ce to requirement	ts in 120F.4.3 instead.
					Proposed F	Response	Res	ponse Status O		
					C/ 163	SC 163.9	.3.3	P182	L 5	# 72
					Ran, Adee			Intel		
					Comment 7			mment Status X		
								Q3 is 3.2905" should s for (as in 136.9.4.2.3		the equations, with and
					Alterna 9.	tively, the e	uations ca	an be replaced by cros	ss reference to ec	quations 136-8 and 136
					Suggested					
					per con	iment.				

C/ 163 SC 163.9.2.2	P 178	L 28	# 73	C/ 93A SC 93A.5.	1 P 202	L 45	# 76
Brown, Matt	Huawei			Brown, Matt	Huawei		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
presentation;	e using TP0a is no longer rec g/3/ck/public/adhoc/sept16_2		-	The variable f_r used SuggestedRemedy	d in equation 93A-58b is not inc	cluded in the asso	ociated variable list.
uggestedRemedy				Add fr and its definiti	on to the variable list below Eq	uation 93A-58b.	
Remove 163.9.2.2 and KR (Clause 163) and C	l reference TP0v instead of T C2C (Annex 120F).	P0a for all transm	nitter specifications for	Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 120F SC 120F.3	.1.1 P209	L14	# 77
				Brown, Matt	Huawei		
/ 163 SC 163.9.2.3	P179	L 44	# 74	Comment Type E	Comment Status X		
rown, Matt omment Type E	Huawei <i>Comment Status</i> X				e "Difference between measure ful. A more concise name woul		effective return
Wording				SuggestedRemedy			
uggestedRemedy					between measured and referen . Apply throughout 163, 120F, a		n loss" to "difference
0	e for obtaining" to "The metho	od for obtaining".		Proposed Response	Response Status 0		
Proposed Response	Response Status O						
				C/ 120F SC 120F.3	.1.1 P209	L18	# 78
			" —-				
		L1	# 75	Brown, Matt	Huawei		
rown, Matt	Huawei	L1	# 75	Brown, Matt Comment Type E	Huawei Comment Status X		
rown, Matt Comment Type E	Huawei Comment Status X	-		Comment Type E The parameter name	Comment Status X		steady-state
rown, Matt omment Type E The test fixture should	Huawei	st specifications a	and methods. As was	Comment Type E The parameter name voltage" is a real mo	Comment Status X		steady-state
rown, Matt omment Type E The test fixture should	Huawei Comment Status X be defined before defining te	st specifications a	and methods. As was	Comment Type E The parameter name voltage" is a real mo SuggestedRemedy	Comment Status X = "Difference between measure uthful. A more concise name w	ould beneificial.	
rown, Matt comment Type E The test fixture should done for the TX test fix subclause.	Huawei Comment Status X be defined before defining te	st specifications a	and methods. As was	Comment Type E The parameter name voltage" is a real mo SuggestedRemedy Change "Difference	Comment Status X	vould beneificial. nce steady-state v	
Brown, Matt Comment Type E The test fixture should done for the TX test fix	Huawei Comment Status X be defined before defining te ture subclause, move the RX	st specifications a	and methods. As was	Comment Type E The parameter name voltage" is a real mo SuggestedRemedy Change "Difference	Comment Status X e "Difference between measure uthful. A more concise name w between measured and referen	vould beneificial. nce steady-state v	,

C/ 120F SC 120F.3.1	1.1 P209	L 21	# 79	C/ 120F	SC 120F.3.1	P 208	L14	# 82
Brown, Matt	Huawei			Brown, Ma	tt	Huawei		
Comment Type E	Comment Status X			Comment	Туре т	Comment Status X		
	"Difference between measure ful. A more concise name wou		linear fit pulse		e for dERL is rec ould be correct.	uired. If an appropriate refere	ence transmitter	is defined, then a valu
SuggestedRemedy				Suggested	Remedy			
Change "Difference be	etween measured and referen	nce linear fit puls	e peak" to "linear fit	Replac	e TBD with 0.			
pulse peak". Apply throughc	out 163, 120F, and 163A.			Proposed I	Response	Response Status O		
Proposed Response	Response Status 0							
				C/ 120F	SC 120F.3.1	P 208	L18	# 83
C/ 120F SC 120F.3.1	1.1 P 209	L 6	# 80	Brown, Ma	tt	Huawei		
Brown, Matt	Huawei	-•		Comment	Туре т	Comment Status X		
Comment Type E	Comment Status X				e for dv_f is required to the correct.	ired. If an appropriate referer	nce transmitter is	s defined, then a value
delta_ERL should be	dERL.			Suggested	Remedy			
SuggestedRemedy				Replac	e TBD with 0.			
Replace all instances	of delta_ERL with dERL.			Proposed I	Response	Response Status O		
Proposed Response	Response Status O							
				C/ 120F	SC 120F.3.1	P 208	L 21	# 84
7 163 SC 163.9.3.		L1	# 81	Brown, Ma	tt	Huawei		
rown, Matt	Huawei			Comment	Туре Т	Comment Status X		
Comment Type T	Comment Status X					required. If an appropriate re	ference transmit	ter is defined, then a
	mitter test fixture specification on (TP0 to TP0v). The receive				of 0 should be co	prrect.		
•	nitter test fixture specfication.			Suggested	•			
SuggestedRemedy				•	e TBD with 0.			
specification based up https://www.ieee802.c	fixture specification with the r bon slide 12 of the following p org/3/ck/public/adhoc/sept16_ ace all references to TP5a wit	resentation: 20/brown_3ck_a		Proposed I	Response	Response Status O		

Proposed Response Response Status **0**

C/ 120F SC 120F.3.2	.1 <i>P</i> 211	L 40	# 85	C/ 120G S	C 120G.3.1	P 226	L17	# 88
Brown, Matt	Huawei			Brown, Matt		Huawei		
Comment Type T	Comment Status X			Comment Type	т	Comment Status X		
The receiver ERL shou SuggestedRemedy	uld be defined and measured i	n the same way a	is for the transmitter.	comment re	esolution rev	etry mask width (ESMW) va ealed that an eye width me related methodology as de	easurement using t	he currently defined
receiver ERL using the	eiver test fixture is aligned with a same specification as the tra 20F-3, replace the the parame	insmitter ERL usir	ng dERL in	SuggestedRem	<i>edy</i> e methodolo	gy and provide a value or		•
Proposed Response	Response Status O			Proposed Resp	onse	Response Status O		
/ 120F SC 120F.3.2	.3 P213	L1	# 86	C/ 120G S	C 120G.3.1	P 226	L17	# 89
rown, Matt	Huawei			Brown, Matt		Huawei		
omment Type T	Comment Status X			Comment Type	т	Comment Status X		
considerations the value	ement in item e) of receiver in ue for N_p is not set.	terference toleran	ice test		20G.3.1.6. H	ference for host output eye owever, 120G.3.1.6 does r		
SuggestedRemedy				SuggestedRem	edv			
Replace TBD with an a	appropriate value.			00		hodology for ESMW and e	xplain the relevanc	e.
						6,	•	
roposed Response	Response Status O			Proposed Resp	onse	Response Status O		
	-	L 44	# 87			-	/ 22	# 00
2 120F SC 120F.4.3	-	L 44	# 87	C/ 120G S	oonse C 120G.3.1	P226	L 23	# 90
/ 120F SC 120F.4.3 rown, Matt	P 217 Huawei Comment Status X	L 44	# [87	Cl 120G S Brown, Matt Comment Type	C 120G.3.1 T	P 226 Huawei Comment Status X	L23	# 90
Brown, Matt	P 217 Huawei <i>Comment Status</i> X cified as TBD.	L 44	# 87	Cl 120G S Brown, Matt Comment Type The host of SuggestedRem	C 120G.3.1 T utput ERL va	P 226 Huawei Comment Status X	L23	# 90

CI 120G SC 120G.3.1	P 226	L 26	# 91	C/ 120G	SC 120G.3.2	P 229	L17	# 93
Brown, Matt	Huawei			Brown, Matt		Huawei		
Comment Type T	Comment Status X			Comment Ty	rpe T	Comment Status X		
measured after conside measurement point it s	um transition time value is TE erable loss and parasitics bet eems unecessary to specify nsition time used in the the va	ween the host de this parameter.	vice and the	Discussi	on during D1.2 ently defined re	d and far-end eye symmetr comment resolution revea ference receiver and relate	aled that an eye wi	dth measurement usin
SuggestedRemedy				SuggestedR	emedy			
Delete the host output Alternately replace TBI				Either fix specifica		ogy and provide a value or	replace with an ap	propriate alternative
Proposed Response	Response Status O			Proposed Re	esponse	Response Status O		
			<u> </u>					# [a.
C/ 120G SC 120G.3.1	.6 P228	L 24	# 92	C/ 120G	SC 120G.3.2	P 229	L17	# 94
Brown, Matt	Huawei	L 24	# 92	Brown, Matt		Huawei	L17	# 94
Brown, Matt Comment Type T The parameter values "The crosstalk generati target differential peak- –TBD V and +TBD V."	-	ng crosstalk sour ut the use of a ref V and slew time c eak value from Ta	ce are TBD as follows: erence receiver) with of TBD ps between able 120G-1, range of	Brown, Matt Comment Ty In Table mask wi measure SuggestedR	pe T 120G-3, the red th (ESMW) po ESMW or what emedy	Huawei Comment Status X ference for module output bints to 120G.3.1.6. Howev	near-end and far- er, 120G.3.1.6 do	end eye symmetry es not specify how to
Brown, Matt Comment Type T The parameter values "The crosstalk generative target differential peak- —TBD V and +TBD V." 20% to 80%, and minir comment). SuggestedRemedy Replace with the follow	Huawei <i>Comment Status</i> X for the host output eye openir or is calibrated at TP4 (withou to-peak amplitude of TBD m Use the maximum peak to penum transition time from Table num transition time from Table	ng crosstalk sourd ut the use of a ref V and slew time o eak value from Ta le 120G-1 (value	ce are TBD as follows: erence receiver) with of TBD ps between able 120G-1, range of proposed in another	Brown, Matt Comment Ty In Table mask wi measure SuggestedR	rpe T 120G-3, the redth (ESMW) po ESMW or what emedy 3.1.6, add met	Huawei Comment Status X ference for module output bints to 120G.3.1.6. However at to do with it.	near-end and far- er, 120G.3.1.6 do	end eye symmetry es not specify how to
Brown, Matt Comment Type T The parameter values a "The crosstalk generate target differential peak- —TBD V and +TBD V." 20% to 80%, and minir comment). SuggestedRemedy Replace with the follow The crosstalk generato	Huawei Comment Status X for the host output eye openir or is calibrated at TP4 (withou to-peak amplitude of TBD m Use the maximum peak to penum transition time from Table	ng crosstalk sourd ut the use of a ref V and slew time of eak value from Ta le 120G-1 (value t the use of a refe	ce are TBD as follows: erence receiver) with of TBD ps between able 120G-1, range of proposed in another erence receiver) with	Brown, Matt Comment Ty In Table mask wi measure SuggestedR In 120G. Proposed Re	rpe T 120G-3, the redth (ESMW) po ESMW or what emedy 3.1.6, add met	Huawei <i>Comment Status</i> X deference for module output bints to 120G.3.1.6. Howeve at to do with it. hodology for ESMW and ex <i>Response Status</i> O <i>P</i> 229	near-end and far- er, 120G.3.1.6 do	end eye symmetry es not specify how to
Brown, Matt Comment Type T The parameter values "The crosstalk generate target differential peak- —TBD V and +TBD V." 20% to 80%, and minir comment). SuggestedRemedy Replace with the follow The crosstalk generated target differential peak- V and +261 V.	Huawei <i>Comment Status</i> X for the host output eye openir or is calibrated at TP4 (withou to-peak amplitude of TBD m Use the maximum peak to penum transition time from Table num transition time from Table ring: or is calibrated at TP4 (withou	ng crosstalk sourd ut the use of a ref V and slew time of eak value from Ta le 120G-1 (value t the use of a refe	ce are TBD as follows: erence receiver) with of TBD ps between able 120G-1, range of proposed in another erence receiver) with	Brown, Matt Comment Ty In Table mask wi measure SuggestedR In 120G. Proposed Re Cl 120G Brown, Matt Comment Ty	pe T 120G-3, the redth (ESMW) po ESMW or what emedy 3.1.6, add met esponse SC 120G.3.2 pe T	Huawei <i>Comment Status</i> X deference for module output bints to 120G.3.1.6. However at to do with it. hodology for ESMW and ex- <i>Response Status</i> O	near-end and far- er, 120G.3.1.6 do xplain the relevan	end eye symmetry es not specify how to ce.
Brown, Matt Comment Type T The parameter values "The crosstalk generative target differential peak- —TBD V and +TBD V." 20% to 80%, and minir comment). SuggestedRemedy Replace with the follow The crosstalk generator target differential peak-	Huawei <i>Comment Status</i> X for the host output eye openir or is calibrated at TP4 (withou to-peak amplitude of TBD m Use the maximum peak to penum transition time from Table ing: r is calibrated at TP4 (withour to-peak amplitude of 870 mV	ng crosstalk sourd ut the use of a ref V and slew time of eak value from Ta le 120G-1 (value t the use of a refe	ce are TBD as follows: erence receiver) with of TBD ps between able 120G-1, range of proposed in another erence receiver) with	Brown, Matt Comment Ty In Table mask wi measure SuggestedR In 120G. Proposed Re Cl 120G Brown, Matt Comment Ty The mod SuggestedR	pe T 120G-3, the red th (ESMW) po ESMW or what emedy 3.1.6, add met esponse SC 120G.3.2 pe T tule output ERI emedy	Huawei <i>Comment Status</i> X deference for module output bints to 120G.3.1.6. However at to do with it. hodology for ESMW and ex- <i>Response Status</i> O <i>P</i> 229 Huawei <i>Comment Status</i> X	near-end and far- er, 120G.3.1.6 do xplain the relevan	end eye symmetry es not specify how to ce.

C/ 120G SC 120G.3.2	P 229	L 26	# 96	C/ 120G SC 120G.3.3 P231 L43 # 99
Brown, Matt	Huawei			Brown, Matt Huawei
Comment Type T	Comment Status X			Comment Type T Comment Status X
Module output far-end pr methodology was rewritt	re-cursor ISI ratio value is ⊺ en in D1.3.	TBD. The related	measurement	The host input ERL value is TBD. SuggestedRemedy
SuggestedRemedy				Replace TBD with an appropriate value.
Replace TBD with an ap	propriate value.			
Proposed Response	Response Status O			Proposed Response Response Status O
	2000		" 07	Cl 120G SC 120G.3.3.2 P232 L18 # 100
C/ 120G SC 120G.3.2	P 229	L 32	# 97	Brown, Matt Huawei
Brown, Matt	Huawei			Comment Type T Comment Status X
Comment Type T	Comment Status X			In Table 120G-6 for host input stressed signal the value for eye width is TBD.
measured after consider measurement point it se	num transition time value is able loss and parasitics be ems unecessary to specify sition time used in the the v	tween the host d	evice and the	SuggestedRemedy Replace TBD with an appropriate value.
SuggestedRemedy				Proposed Response Response Status O
Delete the host output tra	ansition time			
Alternately replace TBD				CI 120G SC 120G.3.3.2 P232 L18 # 101
Proposed Response	Response Status 0			Brown, Matt Huawei
				Comment Type T Comment Status X
				In Table 120G-6 for host input stressed signal there are specifications for both far-end
C/ 120G SC 120G.3.2.2 Brown, Matt	2 P 230 Huawei	L14	# 98	symmetry mask width (ESMW) and eye width (EW). ESMW is not mentioned in the stressed input procedure nor does it seem relevant.
Comment Type T	Comment Status X			SuggestedRemedy
	or the module output eye op	ening crosstalk	source are TBD as	Delete ESMW row in Table 120G-6.
target differential peak-to	r is calibrated at TP1a (with p-peak amplitude of TBD m to peak value and minimur Table 120G-1.	V and target trar	nsition time of TBD ps."	Proposed Response Response Status O
SuggestedRemedy				
Replace with the followin "The crosstalk generator	ng: r is calibrated at TP1a (with p-peak amplitude of 900 m ¹		,	
Pronosed Response		gottiun		

Proposed Response Response Status **0**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

C/ 120G SC 120G.5.2 P241 L23 # 102	C/ 120G SC 120G.3.4.1 P231 L 35 # 105
Brown, Matt Huawei	Brown, Matt Huawei
Comment Type T Comment Status X	Comment Type T Comment Status X
For each C2M interface, there is a specification for eye symmetry mask width (ESMV	
there is a pointer to 120G.5.2. However, 120G.5.2 does not specify a method for ES specifies a method only EH, EW, and VEC. ESMW is discussed in 120E.4.2, but ever	
there its not really clear what to do with it.	Replace TBD with an appropriate value.
SuggestedRemedy	Proposed Response Response Status O
Add methodology for ESMW and explain the relevance.	
Proposed Response Response Status O	Cl 120G SC 120G.3.3.2 P232 L18 # 106
	Brown, Matt Huawei
C/ 120G SC 120G.3.3.2.1 P233 L32 # 103	Comment Type T Comment Status X
Brown, Matt Huawei	In Table 120G-9 for host input stressed signal there are specifications for both far-end eye
Comment Type T Comment Status X	symmetry mask width (ESMW) and eye width (EW). ESMW is not mentioned in the stressed input procedure nor does it seem relevant.
For the host stressed input the crosstalk source transition parameters are TBD as fol "The counter propagating crosstalk signals during calibration of the stressed signal a	re SuggestedRemedy
asynchronous with target amplitude of TBD mV peak-to-peak differential and 20% to	
target transition time of TBD ps as measured at TP1a (without the use of a reference	
receiver)." Set amplitude to the host output maximum value and set the transition tim the host output minimum value.	ne to Response Status C
the host output minimum value. SuggestedRemedy Change the sentence to the following:	C/ 120G SC 120G.3.4.1.1 P236 L15 # 107
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a	C/ 120G SC 120G.3.4.1.1 P236 L15 # 107
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference	C/ 120G SC 120G.3.4.1.1 P236 L 15 # 107 are Brown, Matt Huawei 80% Comment Type T Comment Status X
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)."	Cl 120G SC 120G.3.4.1.1 P236 L15 # 107 are Brown, Matt Huawei Huawei Brown, Matt Huawei Huaw
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)."	Cl 120G SC 120G.3.4.1.1 P 236 L 15 # 107 Irre Brown, Matt Huawei 80% Comment Type T Comment Status X For the module input stressed eye, the pattern generator transition time value is TBD as
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)." Proposed Response Response Status O	Cl 120G SC 120G.3.4.1.1 P 236 L 15 # 107 are Brown, Matt Huawei 80% Comment Type T Comment Status X For the module input stressed eye, the pattern generator transition time value is TBD as follows: "The target pattern generator 20% to 80% transition time at the input to the test channel in
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)." Proposed Response Response Status O	Cl 120G SC 120G.3.4.1.1 P 236 L 15 # 107 Irre Brown, Matt Huawei 80% Comment Type T Comment Status X For the module input stressed eye, the pattern generator transition time value is TBD as follows: "The target pattern generator 20% to 80% transition time at the input to the test channel in the module stressed input test is TBD ps."
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)." Proposed Response Response Status O Cl 120G SC 120G.3.4 P235 L11 # 104	CI 120G SC 120G.3.4.1.1 P 236 L 15 # 107 Ire Brown, Matt Huawei 80% Comment Type T Comment Status X For the module input stressed eye, the pattern generator transition time value is TBD as follows: "The target pattern generator 20% to 80% transition time at the input to the test channel in the module stressed input test is TBD ps." SuggestedRemedy
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)." Proposed Response Response Status O Cl 120G SC 120G.3.4 P235 L11 # 104	Cl 120G SC 120G.3.4.1.1 P236 L15 # 107 Inre Brown, Matt Huawei 80% Comment Type T Comment Status X For the module input stressed eye, the pattern generator transition time value is TBD as follows: "The target pattern generator 20% to 80% transition time at the input to the test channel in the module stressed input test is TBD ps." SuggestedRemedy Replace TBD with 7.5 ps.
the host output minimum value. SuggestedRemedy Change the sentence to the following: "The counter propagating crosstalk signals during calibration of the stressed signal a asynchronous with target amplitude of 870 mV peak-to-peak differential and 20% to a target transition time of 7.5 ps as measured at TP1a (without the use of a reference receiver)." Proposed Response Response Status O C/ 120G SC 120G.3.4 P235 L11 # 104 Brown, Matt Huawei Comment Type T Comment Status X	Cl 120G SC 120G.3.4.1.1 P236 L15 # 107 Inre Brown, Matt Huawei 80% Comment Type T Comment Status X For the module input stressed eye, the pattern generator transition time value is TBD as follows: "The target pattern generator 20% to 80% transition time at the input to the test channel in the module stressed input test is TBD ps." SuggestedRemedy Replace TBD with 7.5 ps.

W 120G SC 120G.3.4.1.1 P236 L47 # 108	Cl 162 SC 162.11 P156 L37 # 110
rown, Matt Huawei	Champion, Bruce TE Connectivity
omment Type T Comment Status X	Comment Type T Comment Status X
The parameter values for the module input eye opening crosstalk source are TBD as	Cable Assembly ERL listed as TBD in Table 162-16
follows: "The counter propagating crosstalk signals during calibration of the stressed signal are	SuggestedRemedy
asynchronous with target amplitude of TBD mV peak-to-peak differential and target slew	TBD to be changed to 7.4 dB. See presentation
time between –TBD mV and TBD mV of TBD ps as measured at TP4 (without the use of a reference equalizer)."	Proposed Response Response Status O
Use the maximum peak to peak value from Table 120G-3, range of 20% to 80%, and	
minimum transition time from Table 120G-3 (value proposed in another comment).	
ggestedRemedy	C/ 162 SC 162.11.5 P157 L52 # 111
Replace with the following:	Champion, Bruce TE Connectivity
The crosstalk generator is calibrated at TP4 (without the use of a reference receiver) with target differential peak-to-peak amplitude of 900 mV and slew time of 7.5 ps between -270	Comment Type T Comment Status X
V and +270 V.	Cable assembly differential to common-mode conversion loss requirements are listed TBD
oposed Response Response Status O	SuggestedRemedy
	A limit should be specified by an equation. It is recommended to use the following
	equation for this limit:
120G SC 120G.3.4.1.1 P 237 L 14 # 109	SCD21(f)-SDD21(f) ≥ 10 for 0.05 ≤ f < 12.89
own, Matt Huawei	$SCD21(f)-SDD21(f) \ge 14 - 0.3108 * f \text{ for } 12.89 \le f \le 40 \text{ GHz}$
mment Type T Comment Status X	
For the module input stressed eye high-loss case the criteria to have CTLE setting greater than a certain value is not relevant because: (a) there are two gain parameters and (b) the	f is frequency in GHz SCD21(f) is the cable assembly differential to common-mode converion loss
reference receiver includes a DFE. Regardless, the minimum CTLE setting value is TBD.	SDD21 (f) is the cable assembly insertion loss
ggestedRemedy	This limit is based on 5ps of skew (see presentation)
Either:	Proposed Response Response Status O
(a) delete the following text:	Proposed Response Response Status O
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB 	
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB does not apply" on line 18 	Proposed Response Response Status O Cl 162 SC 162.11.4 P157 L48 # 112
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB 	
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB does not apply" on line 18 OR (b) provide an alternate relevant criteria. 	C/ 162 SC 162.11.4 P157 L48 # 112
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB does not apply" on line 18 OR (b) provide an alternate relevant criteria. 	Cl 162 SC 162.11.4 P157 L48 # 112 Champion, Bruce TE Connectivity
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB does not apply" on line 18 OR (b) provide an alternate relevant criteria. 	Cl 162 SC 162.11.4 P157 L48 # 112 Champion, Bruce TE Connectivity Comment Type T Comment Status X
 (a) delete the following text: "This CTLE setting has to be greater than or equal to TBD dB." on line 13, and "except that the restriction that the CTLE setting has to be greater than or equal to TBD dB does not apply" on line 18 OR (b) provide an alternate relevant criteria. 	Cl 162 SC 162.11.4 P157 L48 # 112 Champion, Bruce TE Connectivity Comment Type T Comment Status X Cable assembly differential to common-mode return loss requirements are listed as T

162 SC 162.11.3 P 158 L 9 # 113	C/ 162B SC 162B.1.3.6 P260 L28 # 116
csis, Sam Amphenol	Kocsis, Sam Amphenol
mment Type TR Comment Status X	Comment Type ER Comment Status X
CR ERL parameter N is "3500"	Is the reference to "110B.1.3.7" valid? 802.3-2018
ggestedRemedy	SuggestedRemedy
Change to "5100", see background/consensus presentation	Change to "110B.1.3.6"
pposed Response Response Status O	Proposed Response Response Status O
162 SC 162.11 P 156 L 37 # 114	C/ 162B SC 162B.1.3.6 P260 L32 # 117
csis, Sam Amphenol	Kocsis, Sam Amphenol
<i>mment Type</i> TR <i>Comment Status</i> X Minimum cable assembly ERL = TBD	Comment Type TR Comment Status X No definition of start and stop frequencies
ggestedRemedy	SuggestedRemedy
Change to "7.4dB", see background/consensus presentation	Add definition for fstart=50MHz, fstop=40GHz
oposed Response Response Status O	Proposed Response Response Status O
162B SC 162B.1.3.1 P 256 L 26 # 115	C/ 162B SC 162B.1.3.6 P260 L52 # 118
csis, Sam Amphenol	Kocsis, Sam Amphenol
mment Type TR Comment Status X	Comment Type ER Comment Status X
MTF "FOM_ILD shall be less than (TBD) dB"	Assumed methodology reference is 92.11.3.6.3?
ggestedRemedy	SuggestedRemedy
Change to "is recommended to be less than 0.18dB, and ILD(f) shall meet the values	Add explicit reference, since specific parameters will be change for 3ck
determined using the equation below." ILD(f)< 1 dB for f<26.56GHz ILD(f)< 3 dB for 26.56 <f<40ghz, see background/consensus presentation</f<40ghz, 	Proposed Response Response Status O
	C/ 162B SC 162B.1.3.6 P261 L1 # 119
posed Response Response Status O	
oposed Response Response Status O	Kocsis, Sam Amphenol
oposed Response Response Status O	Kocsis, Sam Amphenol Comment Type TR Comment Status No definition of start and stop frequencies
oposed Response Response Status O	Comment Type TR Comment Status X No definition of start and stop frequencies
oposed Response Response Status O	Comment Type TR Comment Status X

Cl 162B SC 162B.1.3.2 P 256 L 41 # 122 Kocsis, Sam Amphenol Comment Type TR Comment Status X The transmitter PCB signal path is denoted as S^(HOSPT). SuggestedRemedy SequestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation O Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam Amphenol Moment Moment Moment Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam Amphenol Moment Moment Moment Comment Type TR Comment Status X O	2 SC 162.5	P137	L19	# 120	C/ 162 SC 16	2.9.3.1.2	P149	L 6	# 124
one-way delay no more than "14ns" SuggestedRemedy one-way delay no more than "16ns", for consistency with ERL parameter values Proposed Response Response Status 0 Cl 162 SC 162.11.7 P158 L35 # 121 Kocsis, Sam Amphenol Change The steady-state voltage v1 is defined in 136.9.3.1.2, and is determined using Nu linear fitted pulse p(k) is calculated with Dp-3 in clause 136.9.3.1.2 uses the linear fit pulse p(k) is calculated with Dp-3 in clause 136.9.3.1.2, and is determined Nm=200. VisitedRemedy Comment Status X The infer of the pulse p(k) is calculated with Dp-3 in clause 136.9.3.1.2, and is determined using Nu linear fitted pulse p(k) calculated by the procedure in 162.9.3.1.1.* Visites Response Status 0 Change The steady-state voltage v1 is defined in 136.9.3.1.2, and is determined using Nu linear fitted pulse p(k) calculated by the procedure in 162.9.3.1.1.* Visites Response Status 0 Change The steady-state voltage v1 is defined in 136.9.3.1.2, and is determined using Nu linear fitted pulse p(k) calculated by the procedure in 162.9.3.1.1.* Visites Response Status 0 Change The steady-state voltage v1 is defined in 136.9.3.1.2. Cl 1628 SC 1628.1.3.2 P256 L41 # 122 Kocsis, Sam Amphenol Comment Type TR Comment Status X Cl 1628 SC 1628.1.3.2 P256 L41 # 123 Cl 162	s, Sam	Amphenol			Hidaka, Yasuo		Credo Semico	onductor	
SuggestedRemody The linear fit pulse p(k) is calculated with Dp-3 in clause 136, whereas it is calcu	nent Type TR	Comment Status X			Comment Type	r Com	nment Status X		
SuggestedRemedy one-way delay no more than "16ns", for consistency with ERL parameter values Dp=4 in clause 162. It is not clear which procedure is used to calculate the linear p(k). Proposed Response Response Status 0 Cl 162 SC 162.11.7 P158 L35 # 121 Kocsis, Sam Amphenol Tris 7.5 ps* SuggestedRemedy Comment Status X Tris 7.5 ps* SuggestedRemedy Change to "6.5 ps", see background/consensus presentation Proposed Response Proposed Response Response Status 0 Tris 7.5 ps* SuggestedRemedy Credo Semiconductor Credo Semiconductor Cl 162B SC 162B.1.3.2 P256 L41 # 122 Change to "is recommented to meet and shall meet an ERL of 8dB, see background/consensus presentation Comment Type T Comment Status X Proposed Response Response Status 0 Change to "is recommented to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status 0 Cl 162B SC 162B.1.3.2 P256 L41 # 123 SuggestedRemedy Cl 162B SC 162B.1.3.2 P256 L41 # 123 SuggestedRemedy Cl 162B SC 162B.1.3.2 </td <td>ne-way delay no more that</td> <td>an "14ns"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ne-way delay no more that	an "14ns"							
one-way delay no more than "16ns", for consistency with ERL parameter values p(k). Proposed Response Response Status 0 Cl 162 SC 162.11.7 P158 L35 # 121 Kocsis, Sam Amphenol Xumment Status X T_r is 7.5ps* SuggestedRemedy Comment Status 0 **The steady-state voltage vf is defined in 136.9.3.1.2, and is determined using Nu linear fitted pulse p(k) calculated by the procedure in 136.9.3.1.2, and is determined using Nu linear fitted pulse p(k) calculated by the procedure in 16.9.3.1.1.* Proposed Response Response Status 0 Cl 162 SC 162.1.7.1.1 P161 L20 # 122 Cl 162 SC 162.1.3.2 P256 L41 # 122 Cl 162 SC 162.1.3.2 P256 L41 # 122 Comment Type TR Comment Status X Comment Status X Text says test fixture "shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status 0 Proposed Response Response Status X Comment Type TR Comment Status X SuggestedRemedy Cl 162 SC 162B.1.3.2 P256 L41 # 123 SuggestedRemedy Change "fs recommended to meet and shall meet an ERL of 8dB, see background/consensus presentati	estedRemedy								
Cl 162 SC 162.11.7 P 158 L 35 # 121 Kocsis, Sam Amphenol Comment Type TR Comment Status X Tris '7.5ps' SuggestedRemedy Change to '6.5ps', see background/consensus presentation O Proposed Response Response Status O O Cl 162B SC 162B.1.3.2 P 256 L 41 # 122 Kocsis, Sam Amphenol Create Status X Create Status X Comment Type TR Comment Status X Create Status X Cl 162B SC 162B.1.3.2 P 256 L 41 # 122 Kocsis, Sam Amphenol Comment Status X The transmitter PCB signal path is denoted as S^(HOSPT). SuggestedRemedy Change to 'is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123	ne-way delay no more that	an "16ns", for consistency	with ERL param	neter values					
Cl 162 SC 162.11.7 P158 L35 # 121 Cl 162 SC 162.11.7 P158 L35 # 121 Comment Type TR Comment Status X T_r is '7.5ps' SuggestedRemedy Change to '6.5ps', see background/consensus presentation Proposed Response Response Status O Cl 162 SC 162.81.3.2 P256 L41 # 122 Consis, Sam Amphenol Credo Semiconductor Consist, Sam Amphenol Credo Semiconductor Comment Type TR Comment Status X Tet transmitter PCB signal path is denoted as S^(HOSPT). SuggestedRemedy Change to 'is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Cl 162 SC 162.81.3.2 P256 L41 # 123 Change to 'is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation SegestedRemedy Change 'S^(HOSTP)'' to 'S^(HOSPT)''. Proposed Response Response Status O Change 'S^(HOSTSP)'' to 'S^(HOSPT)''. Cl 1628 SC 1628.1.3.2 P256 L41 # 123 Cl 1628 SC 1628.1.3.2 P256 L41	sed Response F	Response Status O			SuggestedRemedy				
Kocsis, Sam Amphenol Comment Type TR Comment Status X T_ris "7.5ps" SuggestedRemedy Change to "6.5ps", see background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P 256 L 41 # 122 C/ 162B SC 162B.1.3.2 P 256 L 41 # 122 C/ 162B C 162B.1.3.2 P 256 L 41 # 122 C/ 162 SC 162B.1.3.2 P 256 L 41 # 122 C/ 162 SC 162B.1.3.2 P 256 L 41 # 122 C/ 162 SC 162B.1.3.2 P 256 L 41 # 122 C/ 162 SC 162B.1.3.2 P 256 L 41 # 122 C/ 162 SC 162B.1.3.2 P 256 L 41 # 123 C/ 162 SC 162B.1.3.2 P 256 L 41 # 123 C/ 162 SC 162B.1.3.2 P 256 L 41 # 123 C/ 162 SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X C/ 162 SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam A						eady-state volta	age vf is defined in 13	36.9.3.1.2, and i	s determined using
Kocsis, Sam Amphenol Comment Type TR Comment Type TR SuggestedRemedy Change to "6.5ps", see background/consensus presentation Proposed Response Response Status CI 162B SC 162E.1.3.2 P 256 L41 # 122 Hidaka, Yasuo Credo Semiconductor Comment Type TR Comment Type TR Comment Status X Cl 162 SC 162E.1.3.2 P 256 L41 # 122 Kocsis, Sam Amphenol Comment Type TR Comment Status Comment Type TR Comment Status X text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162E.1.3.2 P 256 L41 # 123 The steady-state voltage vf is defined in 136.9.3.1.2, and is determined using Numerical Status Cl 162B SC 162E.1.3.2 P 256 L41 # 123 The steady-state voltage vf is defined in 136.9.3.1.2<	2 SC 162.11.7	P158	L35	# 121	to				
T_r is "7.5ps" SuggestedRemedy Change to "6.5ps", see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P 256 L 41 # 122 Kocsis, Sam Amphenol Comment Status X The transmitter PCB signal path is denoted as Sr\(HOSPT). SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation O Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X Cl 162B SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam Amphenol Table Transmitter PCB Transe Titter Status X The transmitter PCB Transe Titter Status X Cl 162B SC 162B.1.3.	s, Sam	Amphenol			10				
SuggestedRemedy Change to "6.5ps", see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P256 L41 # 122 Kocsis, Sam Amphenol Comment Status X Credo Semiconductor Comment Type TR Comment Status X The transmitter PCB signal path is denoted as S^(HOSPT). SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Proposed Response Response Status O Cl 162 SC 162B.1.3.2 P256 L41 # 123 Cl 162B SC 162B.1.3.2 P256 L41 # 123 Conservert and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P256 L41 # 123 Cl 162B SC 162B.1.3.2 P256 L41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X Comment Type TR Comment Status X Test status X Cl 162B SC 162B.1.3.2 P256 L41 # 123 Conserver Amphenol Conserver Comment Status X <td></td> <td>Comment Status X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ined using Nv=200 and</td>		Comment Status X							ined using Nv=200 and
Change to "6.5ps", see background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P256 L41 # 122 Hidaka, Yasuo Credo Semiconductor Comment Type TR Comment Status X text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P256 L41 # 123 Kocsis, Sam Amphenol C/ 162B SC 162B.1.3.2 P25					Proposed Response	Resp	onse Status O		
Cl 162B SC 162B.1.3.2 P256 L41 # 122 Cocsis, Sam Amphenol Comment Type TR Comment Status X text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P256 L41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X	,	ckground/consensus pres	entation						
C/ 162B SC 162B.1.3.2 P 256 L 41 # 122 Kocsis, Sam Amphenol Comment Type TR Comment Status X text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Comment Type Response Status O Proposed Response Response Status O Comment Type TR Comment Status X C/ 162B SC 162B.1.3.2 P 256 L 41 # 123 Comment Type Response Status O C/ 162B SC 162B.1.3.2 P 256 L 41 # 123 Comment Type TR Comment Status X Comment Type TR Comment Status X Comment Type Comment Type TR Comment Status X	sed Response F	Response Status O			C/ 162 SC 16	2.11.7.1.1	P161	L 20	# 125
C/I 162B SC 162B.1.3.2 P256 L41 # 122 Kocsis, Sam Amphenol Comment Type TR Comment Status X text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation O Proposed Response Response Status O C/I 162B SC 162B.1.3.2 P256 L41 123 Kocsis, Sam Amphenol 123					Hidaka, Yasuo		Credo Semico	onductor	
Comment Type TR Comment Status X SuggestedRemedy text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change "S^(HOSTxP)" to "S^(HOSPT)". Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P256 L41 # 123 Kocsis, Sam Amphenol Amphenol Comment Status X			L 41	# 122				IOSPT).	
Comment Type TR Comment Status X text says test fixture "shall meet" Eq 162B-6 SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P 256 L41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X Comment Status X Comment Status X	,	•			SuggestedRemedy				
SuggestedRemedy Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P256 L41 # 123 Kocsis, Sam Amphenol Comment Type TR Proposed Response Response Status O Comment Status X					Change "S^(HO	STxP)" to "S^(I	HOSPT)".		
Change to "is recommended to meet and shall meet an ERL of 8dB, see background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P256 L41 # 123 Cocsis, Sam Amphenol Comment Type TR Comment Status X	-	illeet Eq 102B-0			Proposed Response	Resp	onse Status O		
background/consensus presentation Proposed Response Response Status O C/ 162B SC 162B.1.3.2 P 256 L 41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X		ad to most and shall most				,			
Proposed Response Response Status O Cl 162B SC 162B.1.3.2 P256 L41 # 123 Kocsis, Sam Amphenol Comment Type TR Comment Status X	ackground/consensus pr	ed to meet and shall meet	an ERL 01 60B,	see					
Kocsis, Sam Amphenol Comment Type TR Comment Status X									
Comment Type TR Comment Status X	2B SC 162B.1.3.2	P 256	L 4 1	# 123					
	s, Sam	Amphenol							
Add definition of ERL for MTF	<i>nent Type</i> TR dd definition of ERL for M								
SuggestedRemedy Copy Table120G-4, change Tfx to "0", use as reference for MTF ERL		e Tfx to "0", use as refere	nce for MTF ER	L					
Proposed Response Response Status O									

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

C/ 162 SC 162.11.7.	1.2 <i>P</i> 161	L 50	# 126	C/ 120F	SC 120F.3.	1.3 P2	210	L 43	# 127
lidaka, Yasuo	Credo Semi	conductor		Hidaka, Yas	uo	Cred	lo Semiconduc	tor	
Comment Type E	Comment Status X			Comment Ty	vpe T	Comment Status	S X		
The comment #127 for The aggressor transmi 136.11.7.1.2, not S^(H As wirtten in editor's no Equation (162-13) due I recommend to impler host PCB path as S^(F SuggestedRemedy	ote, the comment #128 for E to this implementation error nent #127 and #128 for D1. IOTxSP) for consistency wit to "S^(HOTxSP)" in the foll	oted as S^(HOTx 01.2 had a conflic 2 and denote the h clause 136.11.	t in the variable name in aggressor transmitter	As Rob 120D.3. bandwid To preve test patt SuggestedR Define F using Pf Choose	, presented an 1.8.2 does no th of clock re ent CDR from ern shorter th emedy PRBS9Q test RBS9 defined 12 edges in F ub clause how	tacking two cycles of an PRBS13Q.	OJ due to leng f test pattern, th 5.11.2, similar and add a tabl ng PRBS9Q, s	oth of PRBS ne best solur to PRBS130 le similar to	13Q and 4MHz tion may be to use a Q in 120.5.11.2.1, but Table 120D-4.
P162, line 11 P162, line 16, Equatior P162, line 22 Remove Editor's note.	n (162-14)			<i>Cl</i> 163A Hidaka, Yasi	SC 163A.2 uo		281 lo Semiconduc	L 3 tor	# 128
Proposed Response	Response Status 0			TP0 is n fixture m due to th make th We shou Also for	, ne interface b ot stable for r nay have a ter ne difficulty of e label of the uld not assum clarification, l	Comment Status etween Transmitter p neasurement, becaus st point corresponding measurement at TPO test point for replica t ne replica test fixture i suppose we should of IT and the replica test	ackage ball an se TP0 is highly to TP0, but th . In order to re est fixture diffe s same as actu differentiate the	y non-TEM r is cannot be mind this dit rent from TF ual test fixtur	node. A replica test e exactly same as TP0 fference, we should P0. re.
				SuggestedR	emedy				
				Use TP0 used.)r and TP0vr	as the labels for the te	est points wher	e the replica	a test fixture may be

C/ 162 SC 162.11	P156	L18	# 129	C/ 162 SC 162.	11.3 P15	7 L 43	# 132
Ghiasi, Ali	Ghiasi Quantu	ım/Inphi		Ghiasi, Ali	Ghiasi	Quantum/Inphi	
Comment Type TR	Comment Status X			Comment Type ER	Comment Status	х	
	specified 50 kHz AC coupling bu	t this standard is	operating 2x the	shall be meet			
Baudrate				SuggestedRemedy			
SuggestedRemedy				should beshall i	meet		
Replace 50 KHz with	h 100 kHz			Proposed Response	Response Status	0	
Proposed Response	Response Status O						
	D.(50	1.10	"	C/ 162 SC 162.	11.3 P15	7 L 44	# 133
C/ 162 SC 162.11		L19	# 130	Ghiasi, Ali	Ghiasi	Quantum/Inphi	
Ghiasi, Ali	Ghiasi Quantu	ım/Inphi		Comment Type TR	Comment Status	х	
Comment Type TR If the AC coupling ne	Comment Status X eeds to be 50 KHz or 100 KHz w	vhy are we defini	ing capacitor value,	Given that for low loss cable	loss cable the loss is contro	olled to 1 dB, we shou	ld do the same for high
actually 100 nF resu	Its in 32 KHz cut off						
,,				SugaestedRemedv			
,				SuggestedRemedy The intention of th	s statement is not clear!	Does it mean that if CC	DM >=4 dB then no need
SuggestedRemedy	ded AC coupling value				s statement is not clear!	Does it mean that if CC	DM >=4 dB then no need
SuggestedRemedy				The intention of the	is statement is not clear!		DM >=4 dB then no need
SuggestedRemedy Remove recomment	ded AC coupling value Response Status O	L 32	# 131	The intention of the to meet ERL?	Response Status	0	DM >=4 dB then no need # 134
SuggestedRemedy Remove recomment Proposed Response Cl 162 SC 162.9.4	ded AC coupling value Response Status O		# 131	The intention of th to meet ERL? Proposed Response	Response Status	0	
SuggestedRemedy Remove recomment Proposed Response Cl 162 SC 162.9.4 Ghiasi, Ali	ded AC coupling value Response Status 0 4.3 P152		# [<u>131</u>	The intention of the to meet ERL? Proposed Response Cl 162 SC 162.	Response Status 11.7.2 P16 Ghiasi	O 3 <i>L</i> 6 Quantum/Inphi	
SuggestedRemedy Remove recommend Proposed Response Cl 162 SC 162.9.4 Ghiasi, Ali Comment Type TR Given that for low los	ded AC coupling value Response Status O 4.3 P152 Ghiasi Quantu	um/Inphi		The intention of th to meet ERL? Proposed Response Cl 162 SC 162. Ghiasi, Ali Comment Type TR	Response Status 11.7.2 P16 Ghiasi	O 3 <i>L</i> 6 Quantum/Inphi X	
SuggestedRemedy Remove recomment Proposed Response Cl 162 SC 162.9.4 Ghiasi, Ali Comment Type TR Given that for low los loss cable	ded AC coupling value Response Status O 4.3 P152 Ghiasi Quantu Comment Status X	um/Inphi		Cl 162 SC 162. Ghiasi, Ali Comment Type TR Some explantion is SuggestedRemedy	Response Status 11.7.2 P16 Ghiasi Comment Status s necessary for table 162-2	O 3 <i>L</i> 6 Quantum/Inphi X 10	# 134
SuggestedRemedy Remove recomment Proposed Response Cl 162 SC 162.9.4 Ghiasi, Ali Comment Type TR Given that for low los loss cable SuggestedRemedy	ded AC coupling value Response Status O 4.3 P152 Ghiasi Quantu Comment Status X ss cable the loss is controlled to	um/Inphi	d do the same for high	Cl 162 SC 162. Ghiasi, Ali Comment Type TR Some explantion is SuggestedRemedy "A description wou	Response Status 11.7.2 P16 Ghiasi Comment Status s necessary for table 162-2 Id be helpful such as ""cab	O 3 <i>L</i> 6 Quantum/Inphi X 20 Ile assemblies are cor	# <u>134</u>
SuggestedRemedy Remove recommend Proposed Response Cl 162 SC 162.9.4 Ghiasi, Ali Comment Type TR Given that for low los loss cable SuggestedRemedy Increase the cable a	ded AC coupling value Response Status O 4.3 P152 Ghiasi Quantu Comment Status X ss cable the loss is controlled to assembly test case min loss from	um/Inphi	d do the same for high	Cl 162 SC 162. Ghiasi, Ali Comment Type TR Some explantion is SuggestedRemedy "A description wou	Response Status 11.7.2 P16 Ghiasi Comment Status s necessary for table 162-2	O 3 <i>L</i> 6 Quantum/Inphi X 20 Ile assemblies are cor	# <u>134</u>
SuggestedRemedy Remove recomment Proposed Response Cl 162 SC 162.9.4 Ghiasi, Ali Comment Type TR Given that for low los loss cable SuggestedRemedy	ded AC coupling value Response Status O 4.3 P152 Ghiasi Quantu Comment Status X ss cable the loss is controlled to	um/Inphi	d do the same for high	The intention of the to meet ERL? Proposed Response Cl 162 SC 162.4 Ghiasi, Ali Comment Type TR Some explantion is SuggestedRemedy "A description would MDI at each end of	Response Status 11.7.2 P16 Ghiasi <i>Comment Status</i> s necessary for table 162-2 Id be helpful such as ""cabl f cable or could be constru	O 3 <i>L</i> 6 Quantum/Inphi X 20 Ile assemblies are cor	# <u>134</u>

C/ 163 SC 163	3.9.2	P176	L30	# 135	C/ 163	SC 16	63.10.5	P186	L 48	# 138
Shiasi, Ali		Ghiasi Quantu	um/Inphi		Ghiasi, Ali			Ghiasi Q	uantum/Inphi	
comment Type TF	R Commer	nt Status X			Comment	Туре	TR	Comment Status X		
TP0v test point m	nethodology is not	proven yet and is	s not uncommon	test point, the current when one inverts the roven test method	Baudra	ate	rds specif	fied 50 kHz AC couplin	g but this standard	is operating 2x the
when the solution		. The name parts			Suggested Replac		z with 100) kHz		
SuggestedRemedy					Proposed I					
TP0 to TP0a a los	ss of 2.2 dB to 2.6	dB with nominal	2.4 dB loss is ir	ease the loss from the nline with MCB loss and es combined with 2x8	Fioposeu r	respons	B	Response Status O		
or 2x12 2.5 mm p	oogo pins connect	ors allow breakou	ut of high large 2	56 lanes switches.	C/ 163	SC 16	63.A.3.1	P 281	L 25	# 139
Make TP0a norm deviate from nom	native and make The ninal range.	P0v the method t	o de-embed whe	en DUT PCB loss	Ghiasi, Ali			Ghiasi Q	uantum/Inphi	
roposed Response	0	e Status O			Comment	Туре	TR	Comment Status X		
/ 163 SC 163 hiasi, Ali	5.9.2.2.	P 178 Ghiasi Quantu	L 33 um/Inphi	# 136	packag Suggested	•				
Comment Type TF	R Commer	nt Status X			Repalc	e virtual	with DUT	, and replace reference	e package with DU	Г package
	R Commer is from 1.2 dB and				Repalc Proposed F			•	e package with DUT	Г package
Inccrease the loss					•			, and replace reference <i>Response Status</i> O	e package with DUT	Г package
Inccrease the loss SuggestedRemedy to 2.2 and 2.6 dB		1.6 dB tion 163-1 to	ninal loss is 2.4 c	зВ	•	Respons		•	e package with DU⊺ ∠1	Г раскаде # <u>140</u>
Inccrease the loss uggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753	s from 1.2 dB and and update equation and update and a solution an	1.6 dB tion 163-1 to	ninal loss is 2.4 c	ΊB	Proposed I	Respons	e	Response Status 0 P208		
Inccrease the loss SuggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753	s from 1.2 dB and and update equation and update and a solution an	1.6 dB tion 163-1 to the equation nom	ninal loss is 2.4 c	јВ	Proposed F	Response SC 12	e	Response Status 0 P208	L1	
Inccrease the loss SuggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753 Proposed Response	s from 1.2 dB and and update equa 3*sqrt(f)+0.0561*f <i>Response</i>	1.6 dB tion 163-1 to the equation nom e Status O	ninal loss is 2.4 c		Proposed F Cl 120F Ghiasi, Ali Comment T Until it	SC 12 SC 12 Type is prover	e 20.F.3.1 T n TP0v wi	Response Status O P208 Ghiasi Q Comment Status X th real measurement ti	L1 uantum/Inphi ne electrical charac	# 140
Inccrease the loss iuggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753 Proposed Response	s from 1.2 dB and and update equat 3*sqrt(f)+0.0561*f <i>Response</i> 3.9.3.2	1.6 dB tion 163-1 to the equation nor <i>Status</i> O <i>P</i> 181 Ghiasi Quantu	L18	₩ # 137	Proposed F Cl 120F Ghiasi, Ali Comment T Until it TP0a, 1	SC 12 SC 12 Type is prover there is r ution is t	e 20.F.3.1 T n TP0v wi no need c	Response Status O P208 Ghiasi Q Comment Status X th real measurement th reate all this confusion	L1 uantum/Inphi ne electrical charac and complexity by	# 140 teristics should be at introducing TP0v when
Inccrease the loss suggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753 proposed Response f 163 SC 163 shiasi, Ali comment Type TF	and update equates and update equates from 1.2 dB and and update equates are specified on the second structure of the second s	1.6 dB tion 163-1 to the equation norr e Status O P181 Ghiasi Quantu of Status X	L18		<i>Proposed F</i> <i>Cl</i> 120F Ghiasi, Ali <i>Comment T</i> Until it TP0a, the sol and HC	SC 12 SC 12 Type is prover there is r ution is t CB!	e 20.F.3.1 T n TP0v wi no need c rivial just i	Response Status O P208 Ghiasi Q Comment Status X th real measurement th reate all this confusion	L1 uantum/Inphi ne electrical charac and complexity by	# 140
Inccrease the loss SuggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753 Proposed Response C/ 163 SC 163 Shiasi, Ali Comment Type TF Inccrease the loss	s from 1.2 dB and and update equat 3*sqrt(f)+0.0561*f <i>Response</i> 3.9.3.2	1.6 dB tion 163-1 to the equation norr e Status O P181 Ghiasi Quantu of Status X	L18		Cl 120F Ghiasi, Ali Comment T Until it TP0a, i the soli and HC Suggested	SC 12 SC 12 Type is prover there is r ution is t CB!	e 20.F.3.1 T n TP0v wi no need c rivial just i	Response Status O P208 Ghiasi Q Comment Status X th real measurement th reate all this confusion	L1 uantum/Inphi ne electrical charac and complexity by	# 140 teristics should be at introducing TP0v wher
Inccrease the loss SuggestedRemedy to 2.2 and 2.6 dB =0.0062 + 0.1753 Proposed Response Cl 163 SC 163 Ghiasi, Ali Comment Type TF	ss from 1.2 dB and and update equa 3*sqrt(f)+0.0561*f <i>Response</i> 3.9.3.2 R <i>Commer</i> as from 1.2 dB and	1.6 dB tion 163-1 to the equation norr e Status O P181 Ghiasi Quantu of Status X	L18		Cl 120F Ghiasi, Ali Comment T Until it TP0a, i the soli and HC Suggested	Response SC 12 Type is proven there is r ution is t CB! Remedy e TP0v to	e 20.F.3.1 T n TP0v wi no need c rivial just i	Response Status O P208 Ghiasi Q Comment Status X th real measurement th reate all this confusion	L1 uantum/Inphi ne electrical charac and complexity by	# 140 teristics should be at introducing TP0v wher

C/ 120F SC 120.F.:	.3.1 P208	L13	# 141	C/ 120G	SC 120G.3.2	.1	P 229	L 48	# 144
Ghiasi, Ali	Ghiasi Qu	antum/Inphi		Ghiasi, Ali			Ghiasi Quantu	um/Inphi	
Comment Type TR	Comment Status X			Comment	Type TR	Comment S	Status X		
	mode results in 1+ dB of C0 nount of AC common mode	OM penalty, there is	no technical bases for		ited that module hat short and lo				e setting for long, not short and long!
SuggestedRemedy				Suggested	Remedy				
Reduce TX AC com	mon mode from 30 mV to 1	5 mV RMS			short channel as long channel as				
Proposed Response	Response Status O			Proposed F	-).
				Proposed r	Response	Response S	status O		
C/ 120F SC 120F.3		L18	# 142	C/ 120G	SC 120G.3.2	3	P 231	L16	# 145
Shiasi, Ali		antum/Inphi		Ghiasi, Ali		.0	Ghiasi Quantu		" 143
Comment Type TR	Comment Status X			Comment	Type TR	Comment S		um/mpm	
Inteference tolerance	e must include AC common	mode						hich can be prot	plematic for C2M
SuggestedRemedy									alysis was performed
				1000110		L, at 000 110			alysis was periornica
Add step k to the list	t: Adjust stressor P/N skew	if necessary to achi	ve 17.5 mV AC RMS.	by Mr.	Mellitz but C2M	measurement	points are at T	P1a and TP4 no	ot an end-end link using
•	t: Adjust stressor P/N skew Response Status O	if necessary to achi	ve 17.5 mV AC RMS.	by Mr. COM	Mellitz but C2M	measurement	points are at T	P1a and TP4 no	ot an end-end link using
•		if necessary to achi	ve 17.5 mV AC RMS.	by Mr. COM https://	Mellitz but C2M www.ieee802.or	measurement	points are at T	P1a and TP4 no	hoc_01a_061020.pdf
Proposed Response	Response Status O 3.1.3 P227	L46	we 17.5 mV AC RMS. # 143	by Mr. COM https:// <i>Suggested</i> . Recom	Mellitz but C2M www.ieee802.or <i>Remedy</i>	measurement g/3/ck/public/a back to the ori	points are at T adhoc/jun10_20 iginal Rx=0.19	P1a and TP4 no)/mellitz_3ck_ad which equates to	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it car
Proposed Response	Response Status O 3.1.3 P227 Ghiasi Qu			by Mr. COM https:// <i>Suggested</i> . Recom	Mellitz but C2M www.ieee802.or <i>Remedy</i> mend changing ven that -4.2 dB	measurement g/3/ck/public/a back to the ori	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c	P1a and TP4 no)/mellitz_3ck_ad which equates to	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it car
Proposed Response Cl 120G SC 120G.: Ghiasi, Ali Comment Type TR	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X	L 46 antum/Inphi	# [143	by Mr. COM https:// Suggested Recom be prov	Mellitz but C2M www.ieee802.or <i>Remedy</i> mend changing ven that -4.2 dB	measurement g/3/ck/public/a back to the ori would work on	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c	P1a and TP4 no)/mellitz_3ck_ad which equates to	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it car
Proposed Response Cl 120G SC 120G. Chiasi, Ali Comment Type TR Rx of 0.618 implies	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X permitted reflection of -4.2 c	L46 antum/Inphi IB which can be pro	# 143	by Mr. COM https:// Suggested Recom be prov Proposed F	Mellitz but C2M www.ieee802.or <i>Remedy</i> mend changing ven that -4.2 dB Response	measurement g/3/ck/public/a back to the ori would work on	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O	P1a and TP4 no //mellitz_3ck_ad which equates to ompliance is no	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it can ot at the slicer.
Proposed Response Cl 120G SC 120G. Chiasi, Ali Comment Type TR Rx of 0.618 implies receiver with just 4T	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X	L46 antum/Inphi IB which can be pro f 0.19. Extensive ar	# 143 blematic for C2M halysis was performed	by Mr. COM https:// Suggested Recom be prov	Mellitz but C2M www.ieee802.or <i>Remedy</i> mend changing ven that -4.2 dB	measurement g/3/ck/public/a back to the ori would work on	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c	P1a and TP4 no)/mellitz_3ck_ad which equates to	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it car
Proposed Response Cl 120G SC 120G. Shiasi, Ali Comment Type TR Rx of 0.618 implies receiver with just 4T by Mr. Mellitz but C2 COM	Response Status O 3.1.3 P227 Ghiasi Qu <i>Comment Status</i> X permitted reflection of -4.2 c DFE, at 50G we have Rx of 2M measurement points are	L46 antum/Inphi IB which can be pro f 0.19. Extensive ar at TP1a and TP4 n	# 143 blematic for C2M halysis was performed ot an end-end link using	by Mr. COM https:// Suggested Recom be prov Proposed F	Mellitz but C2M www.ieee802.or <i>Remedy</i> mend changing ven that -4.2 dB Response	measurement g/3/ck/public/a back to the ori would work on <i>Response</i> S	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O P231 Ghiasi Quantu	P1a and TP4 no //mellitz_3ck_ad which equates to ompliance is no <i>L</i> 47	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it car ot at the slicer.
Proposed Response 27 120G SC 120G.3 Shiasi, Ali Comment Type TR Rx of 0.618 implies receiver with just 4T by Mr. Mellitz but C2 COM https://www.ieee802	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X permitted reflection of -4.2 c DFE, at 50G we have Rx of	L46 antum/Inphi IB which can be pro f 0.19. Extensive ar at TP1a and TP4 n	# 143 blematic for C2M halysis was performed ot an end-end link using	by Mr. COM https:// Suggested Recom be prov Proposed F	Mellitz but C2M www.ieee802.or Remedy imend changing ven that -4.2 dB Response SC 120G.3.3	measurement g/3/ck/public/a back to the ori would work on	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O P231 Ghiasi Quantu	P1a and TP4 no //mellitz_3ck_ad which equates to ompliance is no <i>L</i> 47	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it can ot at the slicer.
Proposed Response 27 120G SC 120G.3 Shiasi, Ali Comment Type TR Rx of 0.618 implies receiver with just 4T by Mr. Mellitz but C2 COM https://www.ieee802 SuggestedRemedy	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X permitted reflection of -4.2 c DFE, at 50G we have Rx of 2M measurement points are 2.org/3/ck/public/adhoc/jun10	L46 antum/Inphi B which can be pro f 0.19. Extensive ar at TP1a and TP4 n 0_20/mellitz_3ck_ac	# 143 blematic for C2M halysis was performed ot an end-end link using thoc_01a_061020.pdf	by Mr. COM https:// Suggested. Recom be prov Proposed F C/ 120G Ghiasi, Ali Comment T KR/CR	Mellitz but C2M www.ieee802.or <i>Remedy</i> imend changing yen that -4.2 dB <i>Response</i> SC 120G.3.3 <i>Type</i> TR chips are defier	measurement g/3/ck/public/a back to the ori would work on <i>Response S</i> <i>Comment S</i>	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O P231 Ghiasi Quantu Status X on mode of 0.2	P1a and TP4 no)/mellitz_3ck_ad which equates to ompliance is no <i>L</i> 47 um/Inphi	bt an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it can bt at the slicer. # 146
Proposed Response 27 120G SC 120G.3 28 Schart Type TR Rx of 0.618 implies I receiver with just 4T by Mr. Mellitz but C2 COM https://www.ieee802 SuggestedRemedy Recommend changi	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X permitted reflection of -4.2 c DFE, at 50G we have Rx of 2M measurement points are 2.org/3/ck/public/adhoc/jun10 ing back to the original Rx=0	L46 antum/Inphi B which can be pro f 0.19. Extensive ar at TP1a and TP4 n 0_20/mellitz_3ck_ac	# 143 blematic for C2M halysis was performed ot an end-end link using thoc_01a_061020.pdf to -14.4 dB unless it can	by Mr. COM https:// Suggested Recom be prov Proposed F C/ 120G Ghiasi, Ali Comment T KR/CR the sar	Mellitz but C2M www.ieee802.or <i>Remedy</i> mend changing /en that -4.2 dB <i>Response</i> <i>SC</i> 120G.3.3 <i>Type</i> TR chips are defier ne host with suc	measurement g/3/ck/public/a back to the ori would work on <i>Response S</i> <i>Comment S</i>	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O P231 Ghiasi Quantu Status X on mode of 0.2	P1a and TP4 no)/mellitz_3ck_ad which equates to ompliance is no <i>L</i> 47 um/Inphi	bt an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it can bt at the slicer. # 146
Cl 120G SC 120G. Shiasi, Ali Comment Type TR Rx of 0.618 implies receiver with just 4T by Mr. Mellitz but C2 COM https://www.ieee802 SuggestedRemedy Recommend changi be proven that -4.2 of	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status Comment Status X permitted reflection of -4.2 cf DFE, at 50G we have Rx of 2M measurement points are 2.org/3/ck/public/adhoc/jun10 Image: Additional Rx=0 dB would work on a link when Image: Additional Rx=0	L46 antum/Inphi B which can be pro f 0.19. Extensive ar at TP1a and TP4 n 0_20/mellitz_3ck_ac	# 143 blematic for C2M halysis was performed ot an end-end link using thoc_01a_061020.pdf to -14.4 dB unless it can	by Mr. COM https:// Suggested. Recom be prov Proposed F C/ 120G Ghiasi, Ali Comment T KR/CR the sar Suggested.	Mellitz but C2M www.ieee802.or <i>Remedy</i> imend changing /en that -4.2 dB <i>Response</i> SC 120G.3.3 <i>Type</i> TR chips are defier ne host with suc <i>Remedy</i>	measurement g/3/ck/public/a back to the ori would work on <i>Response S</i> <i>Comment S</i> nd with commo h high commo	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O P231 Ghiasi Quantu Status X on mode of 0.2 on mode	P1a and TP4 no //mellitz_3ck_ad which equates to ompliance is no <i>L</i> 47 um/Inphi V to 1.0 V, there	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it car ot at the slicer. # 146 # 146
Proposed Response Cl 120G SC 120G.3 Ghiasi, Ali Comment Type TR Rx of 0.618 implies j receiver with just 4T by Mr. Mellitz but C2 COM https://www.ieee802 SuggestedRemedy Recommend changi	Response Status O 3.1.3 P227 Ghiasi Qu Comment Status X permitted reflection of -4.2 c DFE, at 50G we have Rx of 2M measurement points are 2.org/3/ck/public/adhoc/jun10 ing back to the original Rx=0	L46 antum/Inphi B which can be pro f 0.19. Extensive ar at TP1a and TP4 n 0_20/mellitz_3ck_ac	# 143 blematic for C2M halysis was performed ot an end-end link using thoc_01a_061020.pdf to -14.4 dB unless it can	by Mr. COM https:// Suggested. Recom be prov Proposed F C/ 120G Ghiasi, Ali Comment T KR/CR the sar Suggested.	Mellitz but C2M www.ieee802.or Remedy imend changing ven that -4.2 dB Response SC 120G.3.3 Type TR chips are defier ne host with suc Remedy e common mode	measurement g/3/ck/public/a back to the ori would work on <i>Response S</i> <i>Comment S</i> nd with commo h high commo	points are at T adhoc/jun10_20 iginal Rx=0.19 a link where c Status O P 231 Ghiasi Quantu Status X on mode of 0.2 on mode and common m	P1a and TP4 no //mellitz_3ck_ad which equates to ompliance is no <i>L</i> 47 um/Inphi V to 1.0 V, there	ot an end-end link using hoc_01a_061020.pdf o -14.4 dB unless it can ot at the slicer. # <u>146</u> e is no reason to define

	SC 120G.3.2	P 229	L 34	# 147	C/ 120G	SC 120	G.5.3	P 24	1 <i>L</i> 31	# 150
Ghiasi, Ali		Ghiasi Quantu	m/Inphi		Ghiasi, Ali			Ghiasi	Quantum/Inphi	
Comment Typ	pe TR	Comment Status X			Comment	Туре ТЕ	र	Comment Status	x	
the same If the CD	host with suc	nd with common mode of 0.2 h high common mode. µle is BiCMOS and uses 3.3 \	/ then one will u	use the right voltage	questio		cursor			EC, several people have eed to keep pre-cursor ISI,
rating but blocks.	t if the CDR in	the module is CMOS then on	ie doesn't need	to use 3.3V+ DC	Suggestea	lRemedy				
SuggestedRe	mody				Given	than no one	e has s	hown pre-cursor ISI	needed then we	should remove
00		e min to 0.2 V and common m	ode max to 1.0	V	Proposed	Response		Response Status	0	
Proposed Rea	sponse	Response Status 0								
					C/ 162	SC 162	.9.3	P14	6 L 2 4	# 151
C/ 120G	SC 120G.3.1	P 224	L9	# 148	Ghiasi, Ali			Ghiasi	Quantum/Inphi	
Ghiasi. Ali		Ghiasi Quantu			Comment	Туре ТЕ	र	Comment Status	х	
,	pe TR	Comment Status X	in mpri							here is no technical bases for
(`ommont lvr										
Comment Typ			V to 1.0 V there	e is no reason to define	0	0	amouni	t of AC common mod	le	
KR/CR ch	hips are defier	nd with common mode of 0.2 such large output common m			Suggestea	Remedy				
KR/CR ch the same is BiCMO	hips are defier host to have s S and uses 3.	nd with common mode of 0.2 such large output common m .3 V then one will use the righ	ode voltage. If t voltage rating	the CDR in the module	Suggestea	Remedy		mode from 30 mV t		
KR/CR ch the same is BiCMO module is	hips are defier host to have S and uses 3. CMOS then o	nd with common mode of 0.2 such large output common m	ode voltage. If t voltage rating	the CDR in the module	Suggestea	Remedy e TX AC co			o 15 mV RMS	
KR/CR ch the same is BiCMO module is SuggestedRe	hips are defier host to have s S and uses 3. CMOS then o emedy	nd with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V	ode voltage. If t voltage rating + DC blocks.	the CDR in the module but if the CDR in the	Suggested Reduc	Remedy e TX AC co		mode from 30 mV t	o 15 mV RMS	
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c	hips are defier host to have s S and uses 3. CMOS then o emedy common mode	nd with common mode of 0.2 such large output common m .3 V then one will use the righ	ode voltage. If t voltage rating + DC blocks.	the CDR in the module but if the CDR in the	Suggestea Reduc Proposed	IRemedy e TX AC co Response	ommon	mode from 30 mV to Response Status	o 15 mV RMS O	# [150
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c	hips are defier host to have s S and uses 3. CMOS then o emedy common mode	nd with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V	ode voltage. If t voltage rating + DC blocks.	the CDR in the module but if the CDR in the	Suggestea Reduc Proposed I	Remedy e TX AC co	ommon	mode from 30 mV to Response Status P15	o 15 mV RMS O 1 <i>L</i> 37	# 152
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c	hips are defier host to have s S and uses 3. CMOS then o emedy common mode	ad with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m	ode voltage. If t voltage rating + DC blocks.	the CDR in the module but if the CDR in the	Suggestea Reduc Proposed I Cl 162 Ghiasi, Ali	Remedy e TX AC cc Response SC 162	ommon .9.4	mode from 30 mV to Response Status P15 Ghiasi	o 15 mV RMS O 1 <i>L</i> 37 Quantum/Inphi	# 152
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c Proposed Res	hips are defier host to have s S and uses 3. CMOS then o emedy common mode sponse	nd with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m <i>Response Status</i> O	ode voltage. If t voltage rating + DC blocks.	the CDR in the module but if the CDR in the V	Cl 162 Ghiasi, Ali Comment	IRemedy e TX AC cc Response SC 162. Type TF	.9.4	mode from 30 mV to Response Status P15 Ghiasi Comment Status	0 15 mV RMS 0 1 <i>L</i> 37 Quantum/Inphi X	
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c Proposed Res	hips are defier host to have s S and uses 3. CMOS then o emedy common mode	nd with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m <i>Response Status</i> O <i>P</i> 235	ode voltage. If t voltage rating + DC blocks. hode max to 1.0	the CDR in the module but if the CDR in the	Cl 162 Ghiasi, Ali Comment	IRemedy e TX AC cc Response SC 162. Type TF	.9.4	mode from 30 mV to Response Status P15 Ghiasi	0 15 mV RMS 0 1 <i>L</i> 37 Quantum/Inphi X	
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c Proposed Res C/ 120G Ghiasi, Ali	hips are defier host to have s S and uses 3. CMOS then d comedy common mode sponse SC 120G.3.4	ad with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m <i>Response Status</i> O <i>P</i> 235 Ghiasi Quantu	ode voltage. If t voltage rating + DC blocks. hode max to 1.0	the CDR in the module but if the CDR in the V	Cl 162 Ghiasi, Ali Comment	Remedy e TX AC cc Response SC 162. Type TF ver specifica	.9.4	mode from 30 mV to Response Status P15 Ghiasi Comment Status	0 15 mV RMS 0 1 <i>L</i> 37 Quantum/Inphi X	
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c Proposed Res Cl 120G Ghiasi, Ali Comment Typ	hips are defier host to have s S and uses 3. CMOS then d comedy common mode sponse SC 120G.3.4	ad with common mode of 0.2 such large output common m 3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m <i>Response Status</i> O <i>P</i> 235 Ghiasi Quantu <i>Comment Status</i> X	ode voltage. If t voltage rating + DC blocks. hode max to 1.0	the CDR in the module but if the CDR in the V # 149	Cl 162 Ghiasi, Ali Comment Suggested	IRemedy e TX AC cc Response SC 162. Type TF rer specifica IRemedy	.9.4 R ations a	mode from 30 mV to Response Status P15 Ghiasi Comment Status	o 15 mV RMS O 1 <i>L</i> 37 Quantum/Inphi X max AC commor	
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c Proposed Res C/ 120G Ghiasi, Ali Comment Typ KR/CR ch the same is BiCMO	hips are defier host to have s S and uses 3. S CMOS then of common mode sponse SC 120G.3.4 be TR hips are defier host to have s S and uses 3.	ad with common mode of 0.2 such large output common m .3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m <i>Response Status</i> O <i>P</i> 235 Ghiasi Quantu	ode voltage. If t voltage rating + DC blocks. hode max to 1.0 <i>L</i> 18 m/Inphi V to 1.0 V, there ode voltage. If t voltage rating	the CDR in the module but if the CDR in the V # 149 e is no reason to define the CDR in the module	Cl 162 Ghiasi, Ali Comment Suggested	IRemedy e TX AC co Response SC 162. Type TF ver specifica IRemedy ax AC com	.9.4 R ations a	mode from 30 mV to Response Status P15 Ghiasi Comment Status at TP3 must include	o 15 mV RMS O 1 <i>L</i> 37 Quantum/Inphi X max AC commor e table	
KR/CR ch the same is BiCMO module is SuggestedRe Reduce c Proposed Res C/ 120G Ghiasi, Ali Comment Typ KR/CR ch the same is BiCMO	hips are defier host to have s S and uses 3. CMOS then d common mode sponse SC 120G.3.4 be TR hips are defier host to have s S and uses 3. s CMOS then d	ad with common mode of 0.2 ⁻¹ such large output common m .3 V then one will use the righ one doesn't need to use 3.3V e min to 0.2 V and common m <i>Response Status</i> O <i>P235</i> Ghiasi Quantu <i>Comment Status</i> X ad with common mode of 0.2 ⁻¹ such large output common m .3 V then one will use the righ	ode voltage. If t voltage rating + DC blocks. hode max to 1.0 <i>L</i> 18 m/Inphi V to 1.0 V, there ode voltage. If t voltage rating	the CDR in the module but if the CDR in the V # 149 e is no reason to define the CDR in the module	Cl 162 Ghiasi, Ali Comment Receiv Suggested Add m	IRemedy e TX AC co Response SC 162. Type TF ver specifica IRemedy ax AC com	.9.4 R ations a	mode from 30 mV to Response Status P15 Ghiasi Comment Status at TP3 must include mode 17.5 mV to th	o 15 mV RMS O 1 <i>L</i> 37 Quantum/Inphi X max AC commor e table	

Proposed Response Response Status **0**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

C/ 163 SC 163.9.2	P176	L 43	# 153	C/ 162	SC 162.9.3	.5	P150	L 50	# 156
Ghiasi, Ali	Ghiasi Quantu	ım/Inphi		Dudek, Mił	ke	N	larvell.		
Comment Type TR	Comment Status X			Comment	Туре Т	Comment St	atus X		
	ode results in 1+ dB of COM p unt of AC common mode	penalty, there is	no technical bases for	of the	Tx. Also a va	alue of 2dB hardly '	"limits" this a		nmon mode return loss and if it were really
SuggestedRemedy						ed to be a much la	arger value.		
Reduce TX AC comm	on mode from 30 mV to 15 m	/ RMS		Suggested	-	h "O			
Proposed Response	Response Status O			conver be con	sion of a differ		commonmod al and result	e signal returned in differential nois	into the channel can se into the receiver. To
C/ 163 SC 163.9.3	P 180	L 25	# 154	to "Co	mmon-mode s	ignals can be retur	ned to the tra	ansmitter by diffe	rential to common
Ghiasi, Ali	Ghiasi Quantu	ım/Inphi							eflected back into the nd result in differential
Comment Type TR	Comment Status X			noise i	nto the receive	er. To reduce this e		0	ode to common-mode
Receiver specification	s at TP5a must include max A	C common mod	le		loss is specifie	ed."			
SuggestedRemedy Add max AC common	m mode 17.5 mV to the table			Proposed I	Response	Response Sta	atus O		
Proposed Response	Response Status O			C/ 162	SC 162.9.3	.4	P151	L16	# 157
				Dudek, Mił			larvell.		
	3 P182	L 20	# 155	Comment		Comment St	atus X		
Ghiasi, Ali	Ghiasi Quantu	-	# 155			otnote doesn't pro t and transmission			nitigated. In particular ave a return loss.
Comment Type TR	Comment Status X			Suggested	Remedy				
SuggestedRemedy	must include AC common moo Adjust stressor P/N skew if ne		(0.17.5 m)/ AC DMS	"which	sufficiently mi		f reflections	from the test con	line return loss." to nector and test fixture line 15
•	•	cessary to acrim	e 17.5 IIIV AC RIVIS.	Proposed I	Response	Response Sta	atus O		
Proposed Response	Response Status O								
				C/ 162	SC 162.9.4	.5	P 155	L37	# <u>158</u>
				Dudek, Mił	ke	N	larvell.		
				Comment Errone	<i>Type</i> E ous "be"	Comment St	atus X		
				0					
				Suggested Chang		et the" to "shall me	eet the Also	o on page 157 lin	e 43.

C/ 162 SC 162.11.3 P157 L40	# 159	C/ 163 SC 1	63.9.2.2	P178	L 33	# 162
Dudek, Mike Marvell.		Dudek, Mike		Marvell.		
Comment Type E Comment Status X		Comment Type	TR Co	omment Status X		
mixture of singular "ERL" with plural "are"		The insertion lo Rx test fixture a		mple test fixture is un-r	ealistically low.	This applies to the
SuggestedRemedy Change "are" to "is"		SuggestedRemedy				
Proposed Response Response Status O		and change Fig	jure 163-4 to i	match. Note that the R	x test fixture ref	tients in equation 163-1 ers to this equation and 2.4 and 3.2dB" on page
C/ 162 SC 162.11.7.1.1 P161 L19	# 160	Proposed Respons	e Res	sponse Status O		
Dudek, Mike Marvell.						
Comment Type T Comment Status X The wrong name is used and the equation reference is wrong.		C/ 163 SC 1	63.9.3.1	P180	L 37	# 163
SuggestedRemedy		Dudek, Mike		Marvell.		
		O		omment Status X		
Change "HOSTxP" to "HOSPT" Change Equation 162-12 on line 21 to	Equation 162-10					
Change "HOSTxP" to "HOSPT" Change Equation 162-12 on line 21 to Proposed Response Response Status O	Equation 162-10	The use of the fixture for the ir	trace replica	in 93A.2 already enable erance test fixture. It w done for the Transmit	vould be better t	
Proposed Response Response Status O	·	The use of the fixture for the ir	trace replica aterference tol Il as has beer	in 93A.2 already enablerance test fixture. It w	vould be better t	
	Equation 162-10 # <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spo	trace replica iterference tol Il as has beer ecification in T	in 93A.2 already enable erance test fixture. It w odone for the Transmit	vould be better t ter. n 163.9.3.1 from	
Proposed Response Response Status O C/ 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell.	·	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spo	trace replica iterference tol II as has beer ecification in T f Annex 163A	in 93A.2 already enable erance test fixture. It w o done for the Transmit able 163-9 and sectior	vould be better t ter. n 163.9.3.1 from	o enable this for the
Proposed Response Response Status O Cl 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell. Comment Type T Comment Status X There is no specification for the ERL of the test fixture SuggestedRemedy	# <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spi methodology of Proposed Respons	trace replica iterference tol II as has beer ecification in T f Annex 163A	in 93A.2 already enable erance test fixture. It w of done for the Transmit Table 163-9 and section with suitable exception	vould be better t ter. n 163.9.3.1 from	o enable this for the
Proposed Response Response Status O Cl 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell. Comment Type T Comment Status X There is no specification for the ERL of the test fixture SuggestedRemedy Insert a Paragraph "The ERL of the test fixture shall be greater than TE	# <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spi methodology of Proposed Respons	trace replica iterference tol II as has beer ecification in T f Annex 163A e Res	in 93A.2 already enable erance test fixture. It w a done for the Transmit Table 163-9 and section with suitable exception sponse Status O	vould be better t ter. n 163.9.3.1 from Is	o enable this for the ERL to dERL using the
Proposed Response Response Status O CI 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell. Comment Type T Comment Status X There is no specification for the ERL of the test fixture SuggestedRemedy Insert a Paragraph "The ERL of the test fixture shall be greater than TE	# <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spi methodology of Proposed Respons Cl 163 SC 10 Dudek, Mike Comment Type	trace replica tterference tol II as has beer ecification in T f Annex 163A e Res 63.9.3.1 E Co	in 93A.2 already enable erance test fixture. It w a done for the Transmitt Table 163-9 and section with suitable exception sponse Status O P180 Marvell. omment Status X	ter. 163.9.3.1 from Is	o enable this for the ERL to dERL using the # <u>164</u>
Proposed Response Response Status O Cl 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell. Comment Type T Comment Status X There is no specification for the ERL of the test fixture SuggestedRemedy Insert a Paragraph "The ERL of the test fixture shall be greater than TE	# <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spi methodology of Proposed Respons Cl 163 SC 10 Dudek, Mike Comment Type	trace replica therference tol II as has been ecification in T i Annex 163A e Res 63.9.3.1 E Co have the ERL	in 93A.2 already enable erance test fixture. It w a done for the Transmitt Table 163-9 and section with suitable exception sponse Status O P180 Marvell. omment Status X	ter. 163.9.3.1 from Is	o enable this for the ERL to dERL using the
Proposed Response Response Status O Cl 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell. Comment Type T Comment Status X There is no specification for the ERL of the test fixture SuggestedRemedy Insert a Paragraph "The ERL of the test fixture shall be greater than TE	# <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the spi methodology of Proposed Respons Cl 163 SC 10 Dudek, Mike Comment Type It is strange to	trace replica terference tol II as has beer ecification in T f Annex 163A e Res 63.9.3.1 E Co have the ERL re.	in 93A.2 already enable erance test fixture. It w a done for the Transmitt Table 163-9 and section with suitable exception sponse Status O P180 Marvell. omment Status X	ter. 163.9.3.1 from Is	o enable this for the ERL to dERL using the # <u>164</u>
Proposed Response Response Status O Cl 163 SC 163.9.2.1.2 P178 L5 Dudek, Mike Marvell. Comment Type T Comment Status X There is no specification for the ERL of the test fixture SuggestedRemedy Insert a Paragraph "The ERL of the test fixture shall be greater than TE	# <u>161</u>	The use of the fixture for the ir ERL test as we SuggestedRemedy Change the sponsed Responsed Re	trace replica terference tol II as has been ecification in T f Annex 163A e Res 63.9.3.1 E Co have the ERL re.	in 93A.2 already enable erance test fixture. It w a done for the Transmitt Table 163-9 and section with suitable exception sponse Status O P180 Marvell. omment Status X	vould be better t ter. n 163.9.3.1 from is <i>L</i> 34 Rx Test fixture	o enable this for the ERL to dERL using the # <u>164</u> ahead of the description

/ 163 SC 163.9.3	.2 P181	L 26	# 165	C/ 163 S	SC 163.9.3.3	P181	L 50	# 168
udek, Mike	Marvell.			Dudek, Mike		Marvell.		
omment Type TR	Comment Status X			Comment Type	e TR	Comment Status X		
Equation 163-2 and f to use ERLas the par	igure 163-6 are nothing to do v rameter.	vith return loss. A	Also it would be better	of the loss	between TP0	n Tr of the transmitter and t and TP0v and the Nyquist	frequency. The	equation used was
lggestedRemedy				only valide 12.5GHz.	e for the loss o	f the test fixture of 1.4dB wi	ith a Nyquist freq	uency of approx
	Tx test fixture Replace the se shall meet the specification for			SuggestedRer	nedy			
oposed Response	Response Status O			Replace th	ne equation wi	th TBD.		
	_			Proposed Res	ponse	Response Status O		
163 SC 163.9.3	.3 <i>P</i> 181	L 42	# 166					
dek, Mike	Marvell.			C/ 120F S	SC 120F.3.1.1	P 209	L 26	# 169
mment Type TR	Comment Status X			Dudek, Mike		Marvell.		
Equation 163-2 is not parameter.	thing to do with return loss. Als	so it would be bet	ter to use ERLas the		symbol for delt	Comment Status X ta is a pain for normal typing the delta symbol is ued in		oort writing etc. d is
							other places.	
Change to "The ERL TPt meets the	of the test setup in Figure 93C L in 163.9.2.1.2 with the excep		•	SuggestedRer Replace th were	<i>nedy</i> ne symbol delt	a with d throughout Amme	·	nal places I noticed
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI"			•	SuggestedRer Replace th	<i>nedy</i> ne symbol delt		·	nal places I noticed
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" oposed Response	L in 163.9.2.1.2 with the excep Response Status 0	tion that the leng	th of the reflection	SuggestedRer Replace th were Proposed Res	<i>nedy</i> ne symbol delt	a with d throughout Amme Response Status O	·	nal places I noticed # <u>170</u>
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" oposed Response	L in 163.9.2.1.2 with the excep Response Status O		•	SuggestedRer Replace th were Proposed Res	nedy ne symbol delt ponse	a with d throughout Amme Response Status O	x 120F. Additior	
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" oposed Response 163 SC 163.9.3 dek, Mike	L in 163.9.2.1.2 with the excep <i>Response Status</i> O .3 P181 Marvell.	tion that the leng	th of the reflection	SuggestedRer Replace th were Proposed Res Cl 120F S	nedy ne symbol delt ponse SC 120F.3.2.3	a with d throughout Amme Response Status O P212	x 120F. Additior	
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" oposed Response 163 SC 163.9.3 idek, Mike omment Type TR	L in 163.9.2.1.2 with the excep Response Status O .3 P181 Marvell. Comment Status X	tion that the leng	th of the reflection	SuggestedRer Replace th were Proposed Res Cl 120F S Dudek, Mike Comment Type	nedy ne symbol delt ponse 5C 120F.3.2.3 e T	a with d throughout Amme <i>Response Status</i> 0 <i>P</i> 212 Marvell.	x 120F. Additior	
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" oposed Response 163 SC 163.9.3 idek, Mike omment Type TR TP0v is not used in A	L in 163.9.2.1.2 with the excep <i>Response Status</i> O .3 P181 Marvell.	tion that the leng	th of the reflection	SuggestedRer Replace th were Proposed Res Cl 120F S Dudek, Mike Comment Type	nedy ne symbol delt ponse SC 120F.3.2.3 e T t a return loss	a with d throughout Amme Response Status O P 212 Marvell. Comment Status X	x 120F. Additior	
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" oposed Response 163 SC 163.9.3 udek, Mike omment Type TR TP0v is not used in A uggestedRemedy	L in 163.9.2.1.2 with the excep Response Status O .3 P181 Marvell. Comment Status X Annex 93C which describes this	tion that the leng <i>L</i> 51	th of the reflection # 167	SuggestedRer Replace th were Proposed Res Cl 120F S Dudek, Mike Comment Type There isn't SuggestedRer	nedy ne symbol delt ponse SC 120F.3.2.3 e T t a return loss nedy	a with d throughout Amme Response Status O P 212 Marvell. Comment Status X	x 120F. Additior	
Change to "The ERL TPt meets the requirements for ER signal N is 3500 UI" roposed Response 163 SC 163.9.3 udek, Mike comment Type TR TP0v is not used in A uggestedRemedy	L in 163.9.2.1.2 with the excep Response Status O .3 P181 Marvell. Comment Status X Annex 93C which describes this the beginning of the considera	tion that the leng <i>L</i> 51 s test method.	th of the reflection # <u>167</u>	SuggestedRer Replace th were Proposed Res Cl 120F S Dudek, Mike Comment Type There isn't SuggestedRer	nedy ne symbol delt ponse 5C 120F.3.2.3 e T t a return loss nedy eturn loss" to '	a with d throughout Amme Response Status O P 212 Marvell. Comment Status X spec in 163.9.2.1	x 120F. Additior	

C/ 120F SC 120F.	3.1.1 P209	L 26	# 171	C/ 162 SC 162.11	I.2 P157	L10	# 174				
Dudek, Mike	Marvell.			Haser, Alex	Molex						
Comment Type E Comment Status X				Comment Type TR Comment Status X							
	r delta is a pain for normal typin 1 but the delta symbol is ued in		port writing etc. d is	Fill in TBD. Low free freugencies; no nee	qeuncy cable loss can't vary wild d to over-spec	dly if the cable wo	orks at higher				
SuggestedRemedy				SuggestedRemedy							
Replace the symbol	delta with d throughout Amme	x 120F. Addition	nal places I noticed	Replace TBD with 0	.05GHz						
were				Proposed Response Response Status O							
Proposed Response	Response Status O				•						
		1.40	# [170	C/ 162 SC 162.11	I.3 <i>P</i> 158	L 12	# 175				
C/ 120F SC 120F.		L 42	# 172	Haser, Alex	Molex						
Dudek, Mike	Marvell.			Comment Type T	Comment Status X						
Comment Type T There isn't a return	Comment Status X loss spec in 163.9.2.1			Setting a single vlaue for fixture delay is not flexible enough to account for variation between test fixtures							
SuggestedRemedy				SuggestedRemedy							
Change "return loss	" to "effective return loss"			Specify a range for f	fixture delay (e.g., 2ns +/- 10%)						
Proposed Response Response Status O				Proposed Response Response Status O							
C/ 162 SC 162.1	1.2 <i>P</i> 157	L 8	# 173	C/ 162 SC 162.11	I.3 <i>P</i> 158	L15	# 176				
laser, Alex	Molex			Haser, Alex	Molex						
Comment Type TR	Comment Status X			Comment Type ER Comment Status X							
The minimum IL is t min IL limit	too strict to allow 0.5m 30awg c	ables (see suppo	rt slide); need to relax		re delay is misleading. The spe lay. Only the coax is being rema	,					
SuggestedRemedy				SuggestedRemedy							
More work needed t	o determine what the mask sho	ould be		5	"The specified Tfx value signfic	, ,					
Proposed Response	Response Status O			transmission line return loss by removing the coax connector and via from the measurement." or something along those lines							
				Proposed Response	Response Status O						

/ 162B SC 162B.1.3	.1 P256	L 25	# 177	C/ 162B	SC 16	2B.1.3.6	P 260	L 29	# 180	
aser, Alex	Molex			Haser, Alex			Molex			
comment Type TR	Comment Status X			Comment T	уре -	TR	Comment Status X			
haser_3ck_adhoc_01c	inimal impact on FOM_ILD va _062420, slide 8); a start free MHz due to current common	uency of 50 MH		(should		110B.1.3	s are not defined for ICN 8.6, which specifies 50 MH			
uggestedRemedy				SuggestedF	Remedy					
Change fmin for FOM_	ILD calculation from 10 MHz	to 50 MHz				,	Iculations should be done		Hz with a 10 MHz step	
Proposed Response Response Status O			size, either by adding text or adding values to Table 162B-1							
				Proposed R	Response)	Response Status O			
7 162B SC 162B.1.3	. 2 <i>P</i> 256	L 40	# 178	C/ 162B	SC 16	2B.1.3.6	P 260	L54	# 181	
aser, Alex	Molex					20.1.0.0	Molex	204	101	
comment Type TR	Comment Status X			Haser, Alex		-	Comment Status X			
Current RL mask does	n't accurately capture necess	ary RL performa	nce	Comment T		TR Ioguancia	s are not defined for ICN	colculations		
uggestedRemedy					•	equencie		calculations		
Remove RL mask and	replace with ERL ; input valu	es and ERL limit	TBD	SuggestedF	-					
Proposed Response Response Status O					Add "Integrated crosstalk RMS noise voltages are measured over N uniformly-spaced frequencies f_n spanning the frequency range 50 MHz to 40 GHz with a minimum spacing of 10 MHz." to the end of this section or add values to Table 162B1-3					
/ 162B SC 162B.1.3	.6 <i>P</i> 260	L 28	# 179	Proposed R	Response	9	Response Status O			
aser, Alex	Molex	-20	" 110							
comment Type ER	Comment Status X									
Section 110B.1.3.7 do										
uggestedRemedy Change reference to 1	108 1 3 6									
0										
roposed Response	Response Status O									

CI 120G SC 120G.3.	2.1 P229	L 51	# 182	C/ 120G	SC 120G.3.	2.2	P 230	L 6	# 183										
laki, Jeffery	Juniper Netwo	orks		Maki, Jeffer	у		Juniper Netwo	orks											
omment Type T	Comment TypeTComment StatusXFor host management of module equalization, it would be aligned with modern management interface specifications (e.g., CMIS with use of SFF-8024 Table 4-5 Host Electrical Interface Codes) to designate a nomenclature for the configuration that the module advertises it supports and the host selects. Since there are only two states to choose between, short and long, this is a very practical approach.SuggestedRemedy																		
For host management of module equalization, it would be aligned with modern management interface specifications (e.g., CMIS with use of SFF-8024 Table 4-5 Host Electrical Interface Codes) to designate a nomenclature for the configuration that the module advertises it supports and the host selects. Since there are only two states to choose between, short and long, this is a very practical approach.																			
uggestedRemedy																			
Add immediately after first occurrence of tx_eq_state the text, "also designated as 100GAUI-1-S or 100GAUI-1-L for 100GAUI-1 C2M, 200GAUI-2-S or 200GAUI-2-L for 200GAUI-2 C2M and 400GAUI-4-S or 400GAUI-4-L for 400GAUI-4 C2M." For the second occurrence of tx_eq_state, insert immediately after "tx_eq_state is 0" the text "or 100GAUI-1-S is selected for 100GAUI-1 C2M, or 200GAUI-2-S is selected for 200GAUI-2 C2M or 400GAUI-4-S is selected for 400GAUI-4 C2M." For the third occurrence of tx_eq_state, insert immediately after "tx_eq_state is 0" the text "or 100GAUI-1-S is selected for 400GAUI-4 C2M." For the third occurrence of tx_eq_state, insert immediately after "tx_eq_state is 1" the text "or 100GAUI-1-L is selected for 100GAUI-2-L is selected for 200GAUI-2-L is selected for 400GAUI-4 C2M." For the fourth occurrence of tx_eq_state, insert immediately after "tx_eq_state" the text "or 100GAUI-1-S or 100GAUI-1-L for 100GAUI-1 C2M, 200GAUI-2-L is ro the fourth occurrence of tx_eq_state, insert immediately after "tx_eq_state" the text "or the use of 100GAUI-1-S or 100GAUI-1-L for 100GAUI-1 C2M, 200GAUI-2-S or 200GAUI-2-C C2M and 400GAUI-4-L for 400GAUI-4 C2M." Note this is very similar to BiDi optics that designate a base PMD name and an extended name for the "down" and "up" PMD. See for example Cluase 58.1 for 100BASE-BX10-U PMD at the other." Here we use the extended AUI name to indicate choice of equalization, short or long.				Insert immediately after "tx_eq_state set to 0" the text "or 100GAUI-1-S is selected for 100GAUI-1 C2M, or 200GAUI-2-S is selected for 200GAUI-2 C2M or 400GAUI-4-S is selected for 400GAUI-4 C2M." Insert immediately after "tx_eq_state set to 1" the text "or 100GAUI-1-L is selected for 100GAUI-1 C2M, or 200GAUI-2-L is selected for 200GAUI-2 C2M or 400GAUI-4-L is selected for 400GAUI-4 C2M." Proposed Response Response Status 0															
				C/ 120G	SC 120G.6.	3	P 243	L 30	# 184										
				Maki, Jeffer	у		Juniper Netwo	orks											
				Comment Type T Comment Status X Major capability/option for the module is missing. SuggestedRemedy															
											Proposed Response Response Status O			Add one row to the table. (1) with Item = EQ; Feature = (100GAUI-1-S and 100GAUI-1-L) or (200GAUI-2-S and 200GAUI-2-L) or (400GAUI-4-S and 400GAUI-4-L); Subclause = 120G.3.2.1; Value/Comment = See 120G.3.2.1; Status = M; Support = Yes [].					
														Proposed R	lesponse	Response S	Status O		
				C/ 120G	SC 120G.6.	3	P 243	L 29	# 185										
				Maki, Jeffer	у		Juniper Netwo	orks											
				Comment T	ype T	Comment S	Status X												
				Major capability/option for the host is missing that is already listed for the module. SuggestedRemedy															
								otive Equalizatio = M; Support = `											

Proposed Response Response Status **O**

C/ 162 SC 162.9.3	P146	L 48	# 186	C/ 162 SC 162.9.	8.3 F	D150 L39	# 189
Calvin, John	Keysight Tech	nnologies		Calvin, John	Key	sight Technologies	
Comment Type T	Comment Status X			Comment Type T	Comment Statu	us X	
accurately measured v SuggestedRemedy	n-Odd jitter is only 358 femtos with current state of the art tes t from 0.019 UI to 0.025 UI		is too low to be	https://grouper.ieee. 620.pdf it has been	shown that the EOJ m ttern length and bauc	oublic/adhoc/sept16_2 neasurement is susce	20/calvin_3ck_adhoc_01_091 ptible to a systematic error esolved by allowing the CDR
Proposed Response	Response Status 0			SuggestedRemedy			
	P177	L16	# 187	Update the text of pa measurement metho	d specified in 120D.3		alculated using the tion that EOJ may be ency of <= 4 MHz and a
Calvin, John	Keysight Tech	nologies		slope of 20 dB/deca	de		
Comment Type T	Comment Status X	literegiee		Proposed Response	Response Statu	is O	
••	0.11.11.1.1.050.6.4						
The spec limit for Ever accurately measured v SuggestedRemedy Increase the spec limit Proposed Response	n-Odd jitter is only 358 femtos with current state of the art tes t from 0.019 UI to 0.025 UI <i>Response Status</i> 0	st equipment.		https://grouper.ieee. 620.pdf it has been	Key Comment Statu vin/LeCheminant pre org/groups/802/3/ck/p shown that the EOJ n	esentation public/adhoc/sept16_2 neasurement is susce	ptible to a systematic error
The spec limit for Ever accurately measured v SuggestedRemedy Increase the spec limit Proposed Response	with current state of the art tes t from 0.019 UI to 0.025 UI <i>Response Status</i> O <i>P</i> 208	t equipment.	is too low to be # [<u>188</u>	Calvin, John <i>Comment Type</i> T Based on Sleigh/Ca https://grouper.ieee. 620.pdf it has been based on the test pa	Key Comment Statu vin/LeCheminant pre org/groups/802/3/ck/p shown that the EOJ m ttern length and bauc	ysight Technologies us X esentation public/adhoc/sept16_2 neasurement is susce	20/calvin_3ck_adhoc_01_091
The spec limit for Ever accurately measured v SuggestedRemedy Increase the spec limit Proposed Response Cl 120F SC 120F.3.1 Calvin, John	with current state of the art tes t from 0.019 UI to 0.025 UI <i>Response Status</i> O <i>P</i> 208 Keysight Tech	t equipment.		Calvin, John Comment Type T Based on Sleigh/Ca https://grouper.ieee. 620.pdf it has been based on the test pa loop BW to be reduc	Key Comment Statu vin/LeCheminant pre org/groups/802/3/ck/p shown that the EOJ m ttern length and bauc	ysight Technologies us X esentation public/adhoc/sept16_2 neasurement is susce	20/calvin_3ck_adhoc_01_091 ptible to a systematic error
The spec limit for Ever accurately measured v SuggestedRemedy Increase the spec limit Proposed Response Cl 120F SC 120F.3.1 Calvin, John Comment Type T The spec limit for Ever accurately measured v	with current state of the art tes t from 0.019 UI to 0.025 UI <i>Response Status</i> O <i>P</i> 208	<i>L</i> 39 nnologies econds, which i	# [<u>188</u>	Calvin, John Comment Type T Based on Sleigh/Ca https://grouper.ieee. 620.pdf it has been based on the test pa loop BW to be reduce SuggestedRemedy Update the text of pa measurement method	Key Comment Statu vin/LeCheminant pre org/groups/802/3/ck/p shown that the EOJ m ttern length and bauc ed below 4 MHz age 210 line 43 to rea ad specified in 120D.3 ck recovery unit (CRU	ysight Technologies us X esentation bublic/adhoc/sept16_2 neasurement is susce d rate. This is easily re d Even-odd jitter is ca 3.1.8.2. with the excep	20/calvin_3ck_adhoc_01_091 ptible to a systematic error esolved by allowing the CDR
The spec limit for Ever accurately measured v SuggestedRemedy Increase the spec limit Proposed Response Cl 120F SC 120F.3.1 Calvin, John Comment Type T The spec limit for Ever accurately measured v SuggestedRemedy	with current state of the art tes t from 0.019 UI to 0.025 UI <i>Response Status</i> O <i>P</i> 208 Keysight Tech <i>Comment Status</i> X n-Odd jitter is only 358 femtos	<i>L</i> 39 nnologies econds, which i	# [<u>188</u>	Calvin, John Comment Type T Based on Sleigh/Ca https://grouper.ieee. 620.pdf it has been based on the test pa loop BW to be reduce SuggestedRemedy Update the text of pa measurement methor measured with a clo	Key Comment Statu vin/LeCheminant pre org/groups/802/3/ck/p shown that the EOJ m ttern length and bauc ed below 4 MHz age 210 line 43 to rea ad specified in 120D.3 ck recovery unit (CRU	ysight Technologies us X esentation public/adhoc/sept16_2 neasurement is susce d rate. This is easily re ad Even-odd jitter is ca 3.1.8.2. with the excep J) with a corner freque	20/calvin_3ck_adhoc_01_091 ptible to a systematic error esolved by allowing the CDR alculated using the otion that EOJ may be

C/ 120G SC 120G.3.3.2 P232 L23 # 191	C/ 163 SC 163.9.3.2 P181 L26 # 193
alvin, John Keysight Technologies	Wu, Mau-Lin MediaTek
comment Type T Comment Status X	Comment Type T Comment Status X
Based on Hadrien/Garg/Calvin presentation https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Host stressed Far-end vertical eye closure of 7.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 9.5dB.	The sentence here is to define the "differential return loss" of the test fixture (TP5a) and refer to Equation (163-2) & Figure 163-6. However, the refered equation and figure are correct. The reason is that the original equation (Equation 163-2) & figure (Figure 163-4) in D1p had been removed from D1p3
uggestedRemedy	SuggestedRemedy
Update the target Far-end vertical eye closure VEC in Table 120G-6 from 7.5dB to 9.5dB. Alternately asserting this 7.5dB VEC target without typical margining (SJ) impairments is	Copy Equation 163-2 & Figure 163-4 in D1p2 & related description to D1p3. Put them i appropriate location & correct the refered Equation ID & Figure ID.
allowable to reach a VEC of 7.5dB.	Proposed Response Response Status O
roposed Response Response Status O	
	C/ 163 SC 163.9.3.3 P181 L42 # 194
120G SC 120G.3.4.1 P 235 L 40 # 192	Wu, Mau-Lin MediaTek
lvin, John Keysight Technologies	Comment Type T Comment Status X
omment Type T Comment Status X Based on Hadrien/Garg/Calvin presentation	The reference equation, Equation (163-2), is not correct. It shall be the original equation (equation 163-2) in D1p2 and be removed from D1p3.
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf	SuggestedRemedy
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB. <i>uggestedRemedy</i> Update the target VEC max in Table 120G-9 from 9.5dB to 13dB. Alternately asserting	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID.
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID.
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB. <i>uggestedRemedy</i> Update the target VEC max in Table 120G-9 from 9.5dB to 13dB. Alternately asserting this 9.5dB target VEC should be attainable with either a lower loss C2M test channel, or without typical margining (SJ) impairments is allowable to reach a VEC of 9.5dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID. Proposed Response Response Status
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB. <i>IggestedRemedy</i> Update the target VEC max in Table 120G-9 from 9.5dB to 13dB. Alternately asserting this 9.5dB target VEC should be attainable with either a lower loss C2M test channel, or without typical margining (SJ) impairments is allowable to reach a VEC of 9.5dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID. Proposed Response Response Status Cl 120F SC 120F.3.1.1 P209 L6 # 195
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB. <i>IggestedRemedy</i> Update the target VEC max in Table 120G-9 from 9.5dB to 13dB. Alternately asserting this 9.5dB target VEC should be attainable with either a lower loss C2M test channel, or without typical margining (SJ) impairments is allowable to reach a VEC of 9.5dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID. Proposed Response Response Status C/ 120F SC 120F.3.1.1 P209 L6 # 195 Wu, Mau-Lin MediaTek
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB. <i>uggestedRemedy</i> Update the target VEC max in Table 120G-9 from 9.5dB to 13dB. Alternately asserting this 9.5dB target VEC should be attainable with either a lower loss C2M test channel, or without typical margining (SJ) impairments is allowable to reach a VEC of 9.5dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID. Proposed Response Response Status Cl 120F SC 120F.3.1.1 P209 L6 # 195 Wu, Mau-Lin MediaTek Comment Type E Comment Status X The symbol "dERL (min)" here doesn't consist with "dERL (min)" in Table 120F-1. SuggestedRemedy
https://www.ieee802.org/3/ck/public/adhoc/sept23_20/louchet_3ck_adhoc_01a_092320.pdf it is illustrated that the Module stressed input test VEC (max) value of 9.5dB, cannot be realized with contemporary instrumentation. The current choice of MTF channel losses and sinusoidal impairments records a VEC on the order of 13dB. <i>SuggestedRemedy</i> Update the target VEC max in Table 120G-9 from 9.5dB to 13dB. Alternately asserting this 9.5dB target VEC should be attainable with either a lower loss C2M test channel, or without typical margining (SJ) impairments is allowable to reach a VEC of 9.5dB.	SuggestedRemedy Copy Equation 163-2 in D1p2 & related description to D1p3. Put them in the appropriat location & correct the referred Equation ID. Proposed Response Response Status C/ 120F SC 120F.3.1.1 P209 L6 # 195 Wu, Mau-Lin MediaTek Comment Type E Comment Status X The symbol "dERL (min)" here doesn't consist with "dERL (min)" in Table 120F-1.

C/ 120F SC 120F.3.1	I.1 P209	L 26	# 196	C/ 163A SC 163A.3	.1.1 P282	L19	# 199
Vu, Mau-Lin	MediaTek			Wu, Mau-Lin	MediaTe	ek	
comment Type E	Comment Status X			Comment Type T	Comment Status	[
The symbol "dERL (m	in)" here doesn't consist with "	'dERL (min)" in T	Table 120F-1.	The parameter of "N	_v" in the equation (163A	-3) had been mistake	nly set as "n_v".
SuggestedRemedy				SuggestedRemedy			
Align with "dERL (min)" in Table 120F-1.			Correct "n_v" as "N_	v" in the equation (163A-	3)	
Proposed Response	Response Status O			Proposed Response	Response Status)	
7 163 SC 163.9.2	P176	L 43	# 197	C/ 163 SC 163.9.3	3.4 <i>P</i> 183	L 41	# 200
/u, Mau-Lin	MediaTek			Wu, Mau-Lin	MediaT	ek	
comment Type T	Comment Status X			Comment Type T	Comment Status	<u> </u>	
voltage (max)" will be	also strongly dependent on IL	of TP0v. We nee	ed to fix this.	from Table Table 16	3-9". where Case E is the	case with Jitter frequ	encv 40 MHz. Howev
uggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some	also strongly dependent on IL rence between measured and Ve shall define the AC commo for which is related to IL of TPC nax) at TPOv. Define the differe information had been provided portribution, wu_3ck_01_1120.p	reference AC co in-mode RMS vo Dv to derive the re ence among mea I in wu_3ck_adho	ommon-mode RMS oltage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf.	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E from	3-9", where Case E is the ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case i3 & step c) in 120F.3.2.4 <i>Response Status</i> (e case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214.	uency 12 MHz.
uggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (n reference one. Some Plan to provide one co	rence between measured and Ve shall define the AC commo for which is related to IL of TPC hax) at TPOv. Define the different information had been provided	reference AC co in-mode RMS vo Dv to derive the re ence among mea I in wu_3ck_adho	ommon-mode RMS oltage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf.	the "Case E from Ta There is one similar <i>SuggestedRemedy</i> Change "Case E froi 163.9.3.4 at page 18	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4	e case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214.	uency 12 MHz.
UggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some Plan to provide one co	rence between measured and Ve shall define the AC commo for which is related to IL of TPC nax) at TP0v. Define the differe information had been provided patribution, wu_3ck_01_1120.p	reference AC co in-mode RMS vo Dv to derive the re ence among mea I in wu_3ck_adho	ommon-mode RMS oltage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf.	the "Case E from Ta There is one similar <i>SuggestedRemedy</i> Change "Case E froi 163.9.3.4 at page 18	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> (e case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214.	uency 12 MHz.
ggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (n reference one. Some Plan to provide one co oposed Response	rence between measured and Ve shall define the AC commo for which is related to IL of TPC nax) at TP0v. Define the differe information had been provided patribution, wu_3ck_01_1120.p	reference AC co in-mode RMS vo Dv to derive the re ence among mea I in wu_3ck_adho	ommon-mode RMS oltage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf. ails.	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E from 163.9.3.4 at page 18 Proposed Response	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> (E case with Jitter frequ 2.2.4 at page 214. F from Table 162.15 at page 214.	uency 12 MHz. " both in step c) in
uggestedRemedyWe shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some Plan to provide one co oposed Response163ASC 163A.1	rence between measured and Ve shall define the AC commo tor which is related to IL of TPC information had been provided ontribution, wu_3ck_01_1120.p <i>Response Status</i> O	reference AC co on-mode RMS vo Dv to derive the re- ence among mea l in wu_3ck_adho odf, for more deta	ommon-mode RMS oltage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf.	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E from 163.9.3.4 at page 18 Proposed Response CI 120F SC 120F.3 Wu, Mau-Lin Comment Type T	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> .2.4 <i>P</i> 214 MediaT <i>Comment Status</i>	E case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214. L16	uency 12 MHz. " both in step c) in # 201
uggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some Plan to provide one co roposed Response 163A SC 163A.1 'u, Mau-Lin	rence between measured and Ve shall define the AC commo for which is related to IL of TPC information had been provided ontribution, wu_3ck_01_1120.p <i>Response Status</i> O	reference AC co on-mode RMS vo Dv to derive the re- ence among mea l in wu_3ck_adho odf, for more deta	ommon-mode RMS oltage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf. ails.	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E from 163.9.3.4 at page 18 Proposed Response Cl 120F SC 120F.3 Wu, Mau-Lin Comment Type T It mentions that "The	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> .2.4 <i>P</i> 214 MediaTi <i>Comment Status X</i> e receiver under test shall	E case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214. L16 ek meet the FEC symbol	uency 12 MHz. " both in step c) in # 201
uggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (n reference one. Some Plan to provide one co roposed Response // 163A SC 163A.1 /u, Mau-Lin omment Type E It seems that the term "c) The difference bet	rence between measured and Ve shall define the AC commo for which is related to IL of TPO information had been provided ontribution, wu_3ck_01_1120.p <i>Response Status</i> O <i>P</i> 280 MediaTek <i>Comment Status</i> X "for" in the following sentence ween measured and reference	reference AC co on-mode RMS vo Dv to derive the re- ence among mea l in wu_3ck_adho odf, for more deta	# 198	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E from 163.9.3.4 at page 18 Proposed Response Cl 120F SC 120F.3 Wu, Mau-Lin Comment Type T It mentions that "The for each case in Tab	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> 2.2.4 <i>P</i> 214 MediaTi <i>Comment Status</i> e receiver under test shall le 162-15". However, the is for KR & CR. For C2C	E case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214. L16 Ek meet the FEC symbol FEC symbol error ratio	uency 12 MHz. " both in step c) in # 201 of error ratio requirement to requirement is 1e-3
UggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some Plan to provide one co roposed Response 163A SC 163A.1 u, Mau-Lin comment Type E It seems that the term	rence between measured and Ve shall define the AC commo for which is related to IL of TPO information had been provided ontribution, wu_3ck_01_1120.p <i>Response Status</i> O <i>P</i> 280 MediaTek <i>Comment Status</i> X "for" in the following sentence ween measured and reference	reference AC co on-mode RMS vo Dv to derive the re- ence among mea l in wu_3ck_adho odf, for more deta	# 198	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E from 163.9.3.4 at page 18 Proposed Response C/ 120F SC 120F.3 Wu, Mau-Lin Comment Type T It mentions that "The for each case in Tab Table 162-15, which	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> 2.2.4 <i>P</i> 214 MediaTi <i>Comment Status</i> e receiver under test shall le 162-15". However, the is for KR & CR. For C2C	E case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214. L16 Ek meet the FEC symbol FEC symbol error ratio	uency 12 MHz. " both in step c) in # 201 of error ratio requirement to requirement is 1e-3
uggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some Plan to provide one co roposed Response / 163A SC 163A.1 /u, Mau-Lin omment Type E It seems that the term "c) The difference bet methods defined in 16 uggestedRemedy	rence between measured and Ve shall define the AC commo for which is related to IL of TPO hax) at TPOv. Define the differe information had been provided ontribution, wu_3ck_01_1120.p <i>Response Status</i> O <i>P</i> 280 MediaTek <i>Comment Status</i> X "for" in the following sentence ween measured and reference 53A.3.2."	reference AC co on-mode RMS vo Dv to derive the re- ence among mea l in wu_3ck_adho odf, for more deta <i>L</i> 28	mmon-mode RMS bitage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf. ails. # 198	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E fron 163.9.3.4 at page 18 Proposed Response Cl 120F SC 120F.3 Wu, Mau-Lin Comment Type T It mentions that "The for each case in Tab Table 162-15, which requirement shall be SuggestedRemedy Change the sentenc	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> 2.2.4 <i>P214</i> MediaTi <i>Comment Status</i> e receiver under test shall le 162-15". However, the is for KR & CR. For C2C 1e-4. e to "The receiver under t	case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214. <i>L</i> 16 ek meet the FEC symbol FEC symbol error rati application, the FEC	# 201 # 201
uggestedRemedy We shall define "Diffe voltage (max)" here. V adopt one scaling fact mode RMS voltage (m reference one. Some Plan to provide one co roposed Response // 163A SC 163A.1 /u, Mau-Lin comment Type E It seems that the term "c) The difference bet methods defined in 16 uggestedRemedy Change the sentence	rence between measured and Ve shall define the AC commo for which is related to IL of TPO information had been provided ontribution, wu_3ck_01_1120.p <i>Response Status</i> O <i>P</i> 280 MediaTek <i>Comment Status</i> X "for" in the following sentence ween measured and reference	reference AC co on-mode RMS vo Dv to derive the re- ence among mea l in wu_3ck_adho odf, for more deta <i>L</i> 28 e is redundant. e values for are co	mmon-mode RMS bitage (max) at TP0 and reference AC common- asured one and oc_01_090920.pdf. ails. # 198	the "Case E from Ta There is one similar SuggestedRemedy Change "Case E fron 163.9.3.4 at page 18 Proposed Response Cl 120F SC 120F.3 Wu, Mau-Lin Comment Type T It mentions that "The for each case in Tab Table 162-15, which requirement shall be SuggestedRemedy Change the sentenc	ble 162-15" in D1p3 is the errors in step c) in 120F.3 m Table 162-15" to "Case 3 & step c) in 120F.3.2.4 <i>Response Status</i> .2.4 <i>P</i> 214 MediaT <i>Comment Status</i> e receiver under test shall le 162-15". However, the is for KR & CR. For C2C 1e-4.	e case with Jitter frequ 2.4 at page 214. F from Table 162.15 at page 214. <i>L</i> 16 ek meet the FEC symbol FEC symbol error rati application, the FEC est shall meet 1e-4 Fl	# 201 # 201

C/ 163 SC 163.9.2	P 176	L 44	# 202	C/ 163A SC 163A.	1 P 280	L 47	# 205
Vu, Mau-Lin	MediaTek			Wu, Mau-Lin	MediaTek		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
dERL is still TBD					test fixture methodology, not or shall be scaled by IL of TP0v te		k, but also AC commor
SuggestedRemedy				SuggestedRemedy	÷		
	ne negative values. I had share 92320.pdf. I plan to prepare or			If we take the V_AC change the blocks	CCM as the notation for "AC con of "Measured ERL, V_f, V_peak	" & "Reference E	RL, V_f, V_peak" in
Proposed Response	Response Status O			V_peak, V_ACCM" The paragraphs in new paragraphs ma	Annex 163 related to this change ay need if necessary.	e shall be modifie	ed accordingly. Some
2/ 120F SC 120F.3.1	-	L14	# 203	•	contribution, wu_3ck_01_1120.	.pat, for more det	alls.
Vu, Mau-Lin	MediaTek			Proposed Response	Response Status O		
Comment Type T	Comment Status X						
dERL is still TBD				C/ 120G SC 120G	5.2 P241	L10	# 206
uggestedRemedy				Ran, Adee	Intel		
	ne negative values. I had share			Comment Type T	Comment Status X		
for this comment.	92320.pdf. I plan to prepare or		wu_30k_02_1120.pul,		fit is performed "with parameter	M the same as for	or step a)" - but in step
Proposed Response	Response Status O			a there is no mention			1 / 1
					"a minimum of 3 samples per s ar fit and especially for obtaining		is too low for
7 163 SC 163.9.2.	2 P178	L33	# 204				
/u, Mau-Lin	MediaTek				, for linear fit, M is required to b agraph of 162.9.3.1.1 (which is r		
omment Type T	Comment Status X			no explicit statemer			states this slearly, so
	here are too challenging to ac			SuggestedRemedy			
	xample TX test fixture". Based nple TX test fixture (TP0a). De				eter M the same as for step a)".		
	92320.pdf. I plan to prepare or			Proposed Response	Response Status 0		
SuggestedRemedy							
Change IL and ILD sp dB at 26.56 GHz". ILD	becs of the example TX test fix) is less than or equal to 0.2 df (163-1), Figure 163-4, and rel ive	3 from 0.05 to 2	6.56 GHz				

Proposed Response Response Status **0**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

	P 238	L 51	# 207	C/ 120G	SC 120G.5.	2 P241	L14	# 210
Ran, Adee	Intel			Ran, Adee		Intel		
Comment Type E	Comment Status X			Comment T	vpe T	Comment Status X		
Cross reference to 1208	E.3.1 is inaccurate				te the receive	r input signal yrx(k) by appl	ying the effect of th	e DFE to y2(k) using
SuggestedRemedy Change to 120E.3.1.2				the samplin	g phase ts and	d tap weights b(n) determin	ed in the previous s	step"
Proposed Response	Response Status O			different	eye shape. A	how the effect of the DFE i Ithough EH and VEC are n and on the DFE application	ot affected, if EW o	or ESMW spec are
V 120G SC 120G.3.1	P 226	L17	# 208	SuggestedF	Remedy			
an, Adee	Intel			If ESMV	V and EW spe	cifications are not removed	d, Change the quote	ed statement to
Comment Type T ESMW is TBD.	Comment Status X			b(n) det	ermined in the	r input signal yrx(k) by addi previous step to y2(k). The occurring at t_s + UI/2".		
The importance of ESM parameter.	IW is not clear and there has	; been no proposa	al for a value for this	Proposed R	esponse	Response Status O		
existing EH and VEC lin	ve EMSW, at least until evide mits) and a robust are presented, and a value fo		,	C/ 120G Ran, Adee	SC 120G.3.	3.2 P232	L18	# 211
uggestedRemedy	•			Comment T	vpe T	Comment Status X		
••	v from this table (120G-1), an ble 120G-9.	าd also from Tabl	e 120G–3 (twice),			rameter of host stressed in ameter in the module outpu		able 120G-6). There
	Response Status O			Similarl	/ in module sti	essed input (Table 120G-9)).	
Proposed Response	•							
· ·	P 226	L17	# 209			dition for the stress signal no such specification for ou		the test setup, and is
7 120G SC 120G.3.1	P 226 Intel	L17	# 209		fied if there is			the test setup, and is
/ 120G SC 120G.3.1 an, Adee		L17	# 209	not justi SuggestedF	fied if there is Remedy		utput signal.	the test setup, and is
/ 120G SC 120G.3.1 an, Adee <i>omment Type</i> T	Intel			not justi SuggestedF	fied if there is <i>Remedy</i> he eye width r	no such specification for ou	utput signal.	the test setup, and is
7 120G SC 120G.3.1 an, Adee comment Type T The reference for ESM	Intel Comment Status X	vhich does not ad		not justi <i>SuggestedF</i> Delete t	fied if there is <i>Remedy</i> he eye width r	no such specification for ou ows in tables 120G-6 and 1	utput signal.	the test setup, and is
Ran, Adee Comment Type T The reference for ESM Note: In another comme SuggestedRemedy	Intel Comment Status X W is subclause 120G.3.1.6 w ent, ESMW is proposed to be d, change the reference from	vhich does not ad e removed.	dress ESMW at all.	not justi <i>SuggestedF</i> Delete t	fied if there is <i>Remedy</i> he eye width r	no such specification for ou ows in tables 120G-6 and 1	utput signal.	the test setup, and it

C/ 1 SC 1.4.87	P32	L33	# 212	C/ 135 SC 135.5.1	P106	L 45	# 215
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
	e is one version of 200GAUI-2 w 16.1 and 120.5.1 say "Annex 12			These AUI specification	ons are alternatives		
SuggestedRemedy				00 ,	Also in the next paragraph.		
	-lane version (200GAUI-2)" to "a (120F and Annex 120G for 2000 2.".			Proposed Response	Response Status O		
Proposed Response	Response Status 0			C/ 162 SC 162.7	P138	L41	# 216
				Dawe. Piers	r 130 Nvidia	241	# 210
C/ 1 SC 1.4.11	1 P33	L 6	# 213	Comment Type E	Comment Status X		
Dawe, Piers	Nvidia	-•		Blank line(s)			
Comment Type TR	Comment Status X			SuggestedRemedy			
21	e is one version of 400GAUI-4 wi	hen in fact there	are two incompatible	Remove. Also before	tables 162 6 and 7		
,	16.1 and 120.5.1 say "Annex 12		•	Remove. Also before			
			, ANNEX IZUE, OF				
Annex 120G".		.0D, / (IIIICX 120E	, Annex 120F, O	Proposed Response	Response Status O		
	· · · · · · · · · · · · · · · · · · ·		, Annex 120F, O	Proposed Response	Response Status O		
SuggestedRemedy Change "and a four	-lane version (400GAUI-4)" to "a				· -	/ 12	# 217
SuggestedRemedy Change "and a four 4)".	-lane version (400GAUI-4)" to "a	and two four-lane	versions (400GAUI-	Cl 162 SC 162.9.3.	4 P151	L12	# 217
SuggestedRemedy Change "and a four 4)".	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000	and two four-lane	versions (400GAUI-	C/ 162 SC 162.9.3. Dawe, Piers	4 <i>P</i> 151 Nvidia	L12	# 217
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI-	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.".	and two four-lane	versions (400GAUI-	C/ 162 SC 162.9.3 . Dawe, Piers Comment Type T	4 P151 Nvidia Comment Status X		
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI-	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000	and two four-lane	versions (400GAUI-	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter de	4 P151 Nvidia Comment Status X escription and the note are inc	orrect: "Twice th	ne propagation delay
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI-	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.".	and two four-lane	versions (400GAUI-	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter du associated with the te line delay which suffic	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx v iently mitigates the test point a	orrect: "Twice th value represents and transmissio	ne propagation delay s twice the transmission n line return loss."
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.".	and two four-lane	versions (400GAUI-	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter de associated with the te line delay which suffic And the terminology of	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx iently mitigates the test point oesn't match: propagation del	orrect: "Twice th value represents and transmissio	ne propagation delay s twice the transmission n line return loss."
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response Cl 73 SC 73.6	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.". <i>Response Status</i> O	and two four-lane GAUI-4." to ", or /	versions (400GAUI- Annex 120F or Annex	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter de associated with the te line delay which suffic And the terminology of the same thing or what	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx iently mitigates the test point oesn't match: propagation del	orrect: "Twice th value represents and transmissio	ne propagation delay s twice the transmission n line return loss."
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response Cl 73 SC 73.6 Dawe, Piers	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.". <i>Response Status</i> O <i>P</i> 66	and two four-lane GAUI-4." to ", or /	versions (400GAUI- Annex 120F or Annex	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter du associated with the te line delay which suffic And the terminology of the same thing or what SuggestedRemedy	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx v iently mitigates the test point a oesn't match: propagation del t?	correct: "Twice th value represents and transmissio lay, transmission	ne propagation delay s twice the transmission n line return loss." n line delay - are they
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response Cl 73 SC 73.6 Dawe, Piers	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.". <i>Response Status</i> O <i>P</i> 66 Nvidia <i>Comment Status</i> X	and two four-lane GAUI-4." to ", or /	versions (400GAUI- Annex 120F or Annex	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter du associated with the te line delay which suffic And the terminology of the same thing or what SuggestedRemedy Tfx is windowing time	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx v iently mitigates the test point a oesn't match: propagation del tt?	correct: "Twice the value represents and transmission lay, transmission elay associated	ne propagation delay s twice the transmission n line return loss." n line delay - are they with the test point
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response Cl 73 SC 73.6 Dawe, Piers Comment Type E It's hard to tell what	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.". <i>Response Status</i> O <i>P</i> 66 Nvidia <i>Comment Status</i> X	and two four-lane GAUI-4." to ", or /	versions (400GAUI- Annex 120F or Annex	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter du associated with the te line delay which suffic And the terminology of the same thing or what SuggestedRemedy Tfx is windowing time	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx v iently mitigates the test point a oesn't match: propagation del at? that is larger than twice the de in twice the delay from the test	correct: "Twice the value represents and transmission lay, transmission elay associated	ne propagation delay s twice the transmission n line return loss." n line delay - are they with the test point
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response Cl 73 SC 73.6 Dawe, Piers Comment Type E It's hard to tell what SuggestedRemedy Please show or tell	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.". <i>Response Status</i> O <i>P</i> 66 Nvidia <i>Comment Status</i> X	and two four-lane GAUI-4." to ", or <i>I</i> L15	versions (400GAUI- Annex 120F or Annex # 214	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter du associated with the te line delay which suffic And the terminology of the same thing or wha SuggestedRemedy Tfx is windowing time connector but less that test fixture's transmiss Also Tfx needs to app	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx v iently mitigates the test point a oesn't match: propagation del at? that is larger than twice the de in twice the delay from the test	correct: "Twice the value represents and transmission lay, transmission elay associated to point connector he explanation s	he propagation delay s twice the transmission n line return loss." n line delay - are they with the test point or to the other end of the
SuggestedRemedy Change "and a four 4)". Change ", or Annex 120G for 400GAUI- Proposed Response Cl 73 SC 73.6 Dawe, Piers Comment Type E It's hard to tell what SuggestedRemedy	-lane version (400GAUI-4)" to "a 120F and Annex 120G for 4000 4.". <i>Response Status</i> O <i>P</i> 66 Nvidia <i>Comment Status</i> X 's going on here.	and two four-lane GAUI-4." to ", or <i>I</i> L15	versions (400GAUI- Annex 120F or Annex # 214	Cl 162 SC 162.9.3. Dawe, Piers Comment Type T Both the parameter du associated with the te line delay which suffic And the terminology of the same thing or wha SuggestedRemedy Tfx is windowing time connector but less that test fixture's transmiss Also Tfx needs to app	4 P151 Nvidia Comment Status X escription and the note are inc st fixture", "The specified Tfx v iently mitigates the test point a oesn't match: propagation del t? that is larger than twice the de in twice the delay from the test sion line. ear in 93A.5, which is where t	correct: "Twice the value represents and transmission lay, transmission elay associated to point connector he explanation s	he propagation delay s twice the transmissior n line return loss." n line delay - are they with the test point or to the other end of the

C/ 162 SC 162.9	.3.5 <i>P</i> 150	L 50	# 218	C/ 162 SC 162.11	2 P157	L 26	# 221
awe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
	complains about issues from mix			This minimum loss c	urve bends the wrong way at h	nigh frequencies	
	on-mode to common-mode retur rd, not an attempt at a textbook.			SuggestedRemedy			
most other specs; t	there is no reason that this one s	hould be differen	nt.	Change the limit (Eq	162-10) so it becomes flatter	at high frequencie	es
voltage. It's ineffec	sted: this 2 dB CM LR spec is th tive in the context of mixed-mod eed to discuss it in the draft.			Proposed Response	Response Status O		
SuggestedRemedy	ah			C/ 162 SC 162.11	6 <i>P</i> 158	L 23	# 222
Delete the paragrap				Dawe, Piers	Nvidia		
Proposed Response	Response Status O			Comment Type E	Comment Status X		
					ber; dressing it up as equation	is a waste of tim	e, and not how it's
				done in 163.			
C/ 162 SC 162.9	.4.3.5 <i>P</i> 154	L 38	# 219				
	.4.3.5 <i>P</i> 154 Nvidia	L 38	# 219	SuggestedRemedy			
Dawe, Piers		L 38	# 219	SuggestedRemedy Similar to 162.9.3.5	and Table 163-5: change the c mmon-mode return of the cab		
Dawe, Piers Comment Type E	Nvidia		# 219	SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1	mmon-mode return of the cab 3 at all frequencies between 50	le assembly shall 0 MHz and 40 GH	be within the limi Iz.
Dawe, Piers Comment Type E The FEC symbol er	Nvidia Comment Status X		# <u>219</u>	SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put	mmon-mode return of the cab 3 at all frequencies between 50 "(min)" after "Common-mode	le assembly shall 0 MHz and 40 GH	be within the limi Iz.
Dawe, Piers Comment Type E The FEC symbol er SuggestedRemedy	Nvidia Comment Status X	errors are	# <u>219</u>	SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1)	mmon-mode return of the cab 3 at all frequencies between 50 "(min)" after "Common-mode" 52-11)" with "2".	le assembly shall 0 MHz and 40 GH	be within the limit Iz.
Dawe, Piers Comment Type E The FEC symbol er SuggestedRemedy The FEC symbol er	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e	errors are	# <u>219</u>	SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put	mmon-mode return of the cab 3 at all frequencies between 50 "(min)" after "Common-mode	le assembly shall 0 MHz and 40 GH	be within the limi Iz.
Dawe, Piers Comment Type E The FEC symbol er SuggestedRemedy The FEC symbol er Proposed Response	Nvidia Comment Status X rror ratio requirement assumes e rror ratio requirement assumes th Response Status O	errors are hat errors are		SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1)	mmon-mode return of the cab 3 at all frequencies between 50 "(min)" after "Common-mode † 52-11)" with "2". <i>Response Status</i> 0	le assembly shall 0 MHz and 40 GH	be within the limi Iz.
Dawe, Piers <i>Comment Type</i> E The FEC symbol er <i>SuggestedRemedy</i> The FEC symbol er <i>Proposed Response</i> <i>Cl</i> 162 SC 162.9	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e rror ratio requirement assumes th <i>Response Status</i> O 9.4.4.2 P155	errors are	# <u>219</u> # <u>220</u>	SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1 Proposed Response	mmon-mode return of the cab 3 at all frequencies between 50 "(min)" after "Common-mode † 52-11)" with "2". <i>Response Status</i> 0	le assembly shall 0 MHz and 40 GH to common-mode	be within the limit Iz. e return loss" and
Dawe, Piers Comment Type E The FEC symbol en SuggestedRemedy The FEC symbol en Proposed Response Cl 162 SC 162.9 Dawe, Piers	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e rror ratio requirement assumes th <i>Response Status</i> O A.4.2 P155 Nvidia	errors are hat errors are		SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1) Proposed Response Cl 162 SC 162.11 Dawe, Piers Comment Type E	mmon-mode return of the cab 3 at all frequencies between 56 "(min)" after "Common-mode = 52-11)" with "2". Response Status O 7.1 P160 Nvidia Comment Status X	le assembly shall 0 MHz and 40 GH to common-mode	be within the limi Iz. e return loss" and
Dawe, Piers Comment Type E The FEC symbol en SuggestedRemedy The FEC symbol en Proposed Response Cl 162 SC 162.9 Dawe, Piers Comment Type E	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e rror ratio requirement assumes th <i>Response Status</i> O 9.4.4.2 P155	errors are hat errors are		SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1) Proposed Response C/ 162 SC 162.11 Dawe, Piers	mmon-mode return of the cab 3 at all frequencies between 56 "(min)" after "Common-mode = 52-11)" with "2". Response Status O 7.1 P160 Nvidia Comment Status X	le assembly shall 0 MHz and 40 GH to common-mode	be within the limi Iz. e return loss" and
Dawe, Piers Comment Type E The FEC symbol er SuggestedRemedy The FEC symbol er Proposed Response Cl 162 SC 162.9 Dawe, Piers Comment Type E Table 120D-7	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e rror ratio requirement assumes th <i>Response Status</i> O A.4.2 P155 Nvidia	errors are hat errors are		SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1) Proposed Response Cl 162 SC 162.11 Dawe, Piers Comment Type E	mmon-mode return of the cab 3 at all frequencies between 56 "(min)" after "Common-mode = 52-11)" with "2". Response Status O 7.1 P160 Nvidia Comment Status X	le assembly shall 0 MHz and 40 GH to common-mode	be within the limi Iz. e return loss" and
Dawe, Piers <i>Comment Type</i> E The FEC symbol en <i>SuggestedRemedy</i> The FEC symbol en <i>Proposed Response</i> <i>Cl</i> 162 SC 162.9 Dawe, Piers <i>Comment Type</i> E Table 120D-7 <i>SuggestedRemedy</i>	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e rror ratio requirement assumes th <i>Response Status</i> O A.4.2 P155 Nvidia	errors are hat errors are		SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1) Proposed Response Cl 162 SC 162.11 Dawe, Piers Comment Type E 93A.1.2.1 is in this d SuggestedRemedy	mmon-mode return of the cab 3 at all frequencies between 56 "(min)" after "Common-mode = 52-11)" with "2". Response Status O 7.1 P160 Nvidia Comment Status X	le assembly shall 0 MHz and 40 GH to common-mode <i>L</i> 52	be within the limi Iz. e return loss" and
Dawe, Piers <i>Comment Type</i> E The FEC symbol er <i>SuggestedRemedy</i> The FEC symbol er <i>Proposed Response</i> <i>Cl</i> 162 SC 162.9 Dawe, Piers <i>Comment Type</i> E	Nvidia <i>Comment Status</i> X rror ratio requirement assumes e rror ratio requirement assumes th <i>Response Status</i> O A.4.2 P155 Nvidia	errors are hat errors are		SuggestedRemedy Similar to 162.9.3.5 a common-mode to co given in Table 162-1 In Table 162-18, put replace "Equation (1) Proposed Response Cl 162 SC 162.11 Dawe, Piers Comment Type E 93A.1.2.1 is in this d SuggestedRemedy	mmon-mode return of the cab 3 at all frequencies between 56 "(min)" after "Common-mode for 52-11)" with "2". Response Status O 7.1 P160 Nvidia Comment Status X raft now.	le assembly shall 0 MHz and 40 GH to common-mode <i>L</i> 52	be within the limi Iz. e return loss" and

C/ 162 SC 162.1	1.7.1.1 <i>P</i> 161	L 23	# 224	C/ 163 SC 163.9.2	.1.1 <i>P</i> 177	L 47	# 227
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
=110.3				Try to exclude unexp measurement.	lored / unnecessary areas of i	inaccuracy or poo	r reproducibility in
SuggestedRemedy			-1-"2	SuggestedRemedy			
Proposed Response	ce) as in 162.11.7.1.2, or use a v Response Status O	word. Of of equ			tion loss for this test fixture as ad before for TP0a, or it could		um. It could be as lov
				Proposed Response	Response Status O		
C/ 163 SC 163.1	P 171	L1	# 225				
awe, Piers	Nvidia			C/ 163 SC 163.9.2	.1.3 <i>P</i> 178	L 26	# 228
omment Type E	Comment Status X			Dawe, Piers	Nvidia		
Layout				0	Comment Status X		
2				Comment Type T		and Carlos and a da	
uggestedRemedy	s at 1 and 25, make the first thre	e tables wider so	the notes take 2 lines	It doesn't make sens	e to have an RL spec for the t ler test extends to 40 GHz (se		
SuggestedRemedy Remove blank lines not 3	s at 1 and 25, make the first thre <i>Response Status</i> 0	e tables wider so	the notes take 2 lines	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy	e to have an RL spec for the t ler test extends to 40 GHz (se	e 162.9.3.5, réfer	enced from Table 16
SuggestedRemedy Remove blank lines not 3 Proposed Response	Response Status 0	e tables wider so	the notes take 2 lines	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy	e to have an RL spec for the t ler test extends to 40 GHz (se iss-reference?)	e 162.9.3.5, réfer	renced from Table 16
VuggestedRemedy Remove blank lines not 3 Proposed Response	Response Status 0			It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp	e to have an RL spec for the t ler test extends to 40 GHz (se less-reference?) ec for the test fixture up to the	e 162.9.3.5, réfer	enced from Table 16
Cl 163 SC 163.9 Prowe, Piers	Response Status 0			It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp	e to have an RL spec for the t ler test extends to 40 GHz (se lss-reference?) ec for the test fixture up to the <i>Response Status</i> O	e 162.9.3.5, réfer	renced from Table 16
CuggestedRemedy Remove blank lines not 3 Proposed Response C 163 SC 163.9 Nawe, Piers Comment Type E It's surprising that the	Response Status 0 .2 P177 Nvidia <i>Comment Status</i> X he only definition of SNDR is tab	L12	# 226	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp Proposed Response	e to have an RL spec for the t ler test extends to 40 GHz (se lss-reference?) ec for the test fixture up to the <i>Response Status</i> O	ee 162.9.3.5, refer same frequency	renced from Table 16
 Remove blank lines not 3 Proposed Response 163 SC 163.9 Pawe, Piers Comment Type E 	Response Status 0 .2 P177 Nvidia <i>Comment Status</i> X he only definition of SNDR is tab	L12	# 226	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp Proposed Response	e to have an RL spec for the t ler test extends to 40 GHz (se iss-reference?) ec for the test fixture up to the <i>Response Status</i> O .2 <i>P</i> 178	ee 162.9.3.5, refer same frequency	renced from Table 16 as the product spec.
uggestedRemedy Remove blank lines not 3 roposed Response / 163 SC 163.9 awe, Piers omment Type E It's surprising that the deviation from 2	Response Status 0 .2 P177 Nvidia <i>Comment Status</i> X he only definition of SNDR is tab	L12	# 226	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp Proposed Response Cl 163 SC 163.9.2 Dawe, Piers Comment Type T	e to have an RL spec for the t ler test extends to 40 GHz (se iss-reference?) ec for the test fixture up to the <i>Response Status</i> O .2 <i>P</i> 178 Nvidia	ee 162.9.3.5, refer same frequency	renced from Table 16 as the product spec.
CuggestedRemedy Remove blank lines not 3 Proposed Response Composed Response Comment Type E It's surprising that the the deviation from CouggestedRemedy	Response Status 0 .2 P177 Nvidia <i>Comment Status</i> X he only definition of SNDR is tab	L12	# 226	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp Proposed Response Cl 163 SC 163.9.2 Dawe, Piers Comment Type T	e to have an RL spec for the t ler test extends to 40 GHz (se iss-reference?) ec for the test fixture up to the <i>Response Status</i> O .2 <i>P</i> 178 Nvidia <i>Comment Status</i> X	ee 162.9.3.5, refer same frequency	renced from Table 16 as the product spec.
SuggestedRemedy Remove blank lines not 3 Proposed Response Cl 163 SC 163.9 Dawe, Piers Comment Type E It's surprising that the the deviation from C SuggestedRemedy	Response Status 0 .2 P177 Nvidia Comment Status X he only definition of SNDR is tab 120D.3.1.6.	L12	# 226	It doesn't make sens spec for the item und 5: is that the right cro SuggestedRemedy Provide a CM RL sp Proposed Response Cl 163 SC 163.9.2 Dawe, Piers Comment Type T An example with a ra SuggestedRemedy Pick a single examp	e to have an RL spec for the t ler test extends to 40 GHz (se iss-reference?) ec for the test fixture up to the <i>Response Status</i> O .2 <i>P</i> 178 Nvidia <i>Comment Status</i> X	e 162.9.3.5, refer same frequency <i>L</i> 33 h it need be.	as the product spec. # 229

	P181	L19	# 230	C/ 93A SC 93A.1.	2.1 P198	L 3	# 233
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
We agreed that a test f	ixture test fixture between 1.2	2 dB and 1.6 dB i	is not practical.	Do we need to cons	ider cascading 4-port networks	?	
SuggestedRemedy				SuggestedRemedy			
Make the receiver test	fixture like the transmitter tes	t fixture.					
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 163 SC 163.9.3.3	P181	L 35	# 231	C/ 93A SC 93A.1.	2.1 <i>P</i> 198	L10	# 234
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
transmitter could be a t 120D.3.2.3 got to do wi SuggestedRemedy Correct the text. The tr chance to train, or a de Same for 163.9.3.4 Rec		o 802.3 manager rom a C2C clause at the receiver asl	nent. What has e? ks for after it's had a	SuggestedRemedy Add a sentence: cascade is associati S(y)). Proposed Response	ve: cascade(S(w), cascade(S(x Response Status O	<), S(y))) = cascad	de(cascade(S(w), S(x
Proposed Response	Response Status 0			C/ 93A SC 93A.1.	2.2 P198	L14	# 235
				Dawe, Piers	Nvidia		
X 163 SC 163.10.2	P186	L 28	# 232	Comment Type E	Comment Status X		
Diana	Nvidia			Network			
Dawe, Piers	Comment Status X			SuggestedRemedy			
Dawe, Piers Comment Type T				and the state of t			
Comment Type T A -60 dB response at 4	5 GHz, 32 dB below the resp	onse at Nyquist,	can't matter, but a	network (as in the pi	ublished base document). Also	o in 93A.1.2.3	
Comment Type T A -60 dB response at 4 respectable channel co	5 GHz, 32 dB below the resp	onse at Nyquist,	can't matter, but a	Proposed Response	ublished base document). Also Response Status O	o in 93A.1.2.3	
Comment Type T A -60 dB response at 4 respectable channel co SuggestedRemedy	5 GHz, 32 dB below the resp		can't matter, but a			o in 93A.1.2.3	

CI 93A SC 93A.5	P 202	L 26	# 236	C/ 120G SC 120G.2	P 225	L 29	# 239
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
New ERL paramete	rs			Terminology should al the text.	lign better with that agreed af	ter debate in P80	02.3ba or bs, and with
SuggestedRemedy Add rows for Tfx an	d Tukey window flag in Table 93	A-4, ERL param	ieters	SuggestedRemedy			
Proposed Response	Response Status 0			In Figure 120G-4, Moo change "Transmitter"	dule compliance points, chang to "Electrical output".	ge "Receiver" to	"Electrical input", and
				Proposed Response	Response Status O		
CI 93A SC 93A.5	.1 P202	L 39	# 237				
Dawe, Piers	Nvidia			C/ 120G SC 120G.3.	1 P 226	L17	# 240
Comment Type TR	Comment Status X			Dawe, Piers	Nvidia		
Unexplained notation	on of up and down: v ^			Comment Type TR	Comment Status X		
Remove it. Just sa	y "and" "or" or whatever you me one equation: you can easily say			We need an ESMW linited in combination	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_	easurement worl	ks with or without a DFE
Remove it. Just sa without-Tukey into o the equation (some	y "and" "or" or whatever you mea one equation; you can easily say what simpler) applies. <i>Response Status</i> O			We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw	mit because in C2M, the effer not separately. Eye width m /er; examples in louchet_3ck_ nis draft and Annex 120E, and	easurement worl _adhoc_01a_092	ks with or without a DFE 2320.pdf .
without-Tukey into a	one equation; you can easily say what simpler) applies.			We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI.	easurement worl _adhoc_01a_092 d the ESMW in A	ks with or without a DFE 2320.pdf . .nnex 120E is right,
Remove it. Just sa without-Tukey into o the equation (some Proposed Response	one equation; you can easily say what simpler) applies. <i>Response Status</i> O		w is 1, and if it's one,	We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy	mit because in C2M, the effer not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI.	easurement worl _adhoc_01a_092 d the ESMW in A	ks with or without a DFE 2320.pdf . .nnex 120E is right,
Remove it. Just sa without-Tukey into o the equation (some Proposed Response Cl 93A SC 93A.5	ne equation; you can easily say what simpler) applies. <i>Response Status</i> O	r if Tw is zero, Ht		We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy Write down a range of	mit because in C2M, the effer not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI.	easurement worl _adhoc_01a_092 d the ESMW in A	ks with or without a DFE 2320.pdf . .nnex 120E is right,
Remove it. Just sa without-Tukey into o the equation (some Proposed Response Cl 93A SC 93A.5 Dawe, Piers	one equation; you can easily say what simpler) applies. <i>Response Status</i> O	r if Tw is zero, Ht	w is 1, and if it's one,	We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy Write down a range of information to choose	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI. f candidate limits in the next of one.	easurement worl _adhoc_01a_092 d the ESMW in A	ks with or without a DFE 2320.pdf . .nnex 120E is right,
Remove it. Just sa without-Tukey into o the equation (some Proposed Response Cl 93A SC 93A.5 Dawe, Piers Comment Type T	one equation; you can easily say what simpler) applies. <i>Response Status</i> O .1 <i>P</i> 202 Nvidia	r if Tw is zero, Ht L 41	# 2 <u>38</u>	We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy Write down a range of information to choose Proposed Response	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI. f candidate limits in the next of one. <i>Response Status</i> O	easurement worl _adhoc_01a_092 d the ESMW in A draft, or a single I	ks with or without a DFE 2320.pdf . Innex 120E is right, imit if we have enough
Cl 93A SC 93A.5 Dawe, Piers Comment Type T This way of writing t	one equation; you can easily say what simpler) applies. <i>Response Status</i> O .1 <i>P</i> 202 Nvidia <i>Comment Status</i> X	r if Tw is zero, Ht L 41	# 2 <u>38</u>	We need an ESMW lin limited in combination in the reference receiv. If the VEC values in th ESMW should be betw SuggestedRemedy Write down a range of information to choose Proposed Response	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI. f candidate limits in the next of one. Response Status 0 1.1 P226	easurement worl _adhoc_01a_092 d the ESMW in A	ks with or without a DFE 2320.pdf . .nnex 120E is right,
Remove it. Just sa without-Tukey into o the equation (some Proposed Response Cl 93A SC 93A.5 Dawe, Piers Comment Type T This way of writing to SuggestedRemedy Simplify it, rememb fper is +ve, with for	one equation; you can easily say what simpler) applies. <i>Response Status</i> O .1 <i>P</i> 202 Nvidia <i>Comment Status</i> X	r if Tw is zero, Ht L41	w is 1, and if it's one, # 238	We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy Write down a range of information to choose Proposed Response	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI. f candidate limits in the next of one. <i>Response Status</i> O	easurement worl _adhoc_01a_092 d the ESMW in A draft, or a single I	ks with or without a DFE 2320.pdf . Innex 120E is right, imit if we have enough
Remove it. Just sa without-Tukey into o the equation (some Proposed Response Cl 93A SC 93A.5 Dawe, Piers Comment Type T This way of writing the SuggestedRemedy Simplify it, rememb fper is +ve, with for	one equation; you can easily say what simpler) applies. <i>Response Status</i> O .1 <i>P</i> 202 Nvidia <i>Comment Status</i> X the middle row of the equation is ering that cos(x)=cos(-x)=-cos(x- before fr in the formula.	r if Tw is zero, Ht L41	w is 1, and if it's one, # 238	We need an ESMW lin limited in combination in the reference receiv If the VEC values in th ESMW should be betw SuggestedRemedy Write down a range of information to choose Proposed Response Cl 120G SC 120G.3. Dawe, Piers Comment Type E	mit because in C2M, the effect not separately. Eye width m ver; examples in louchet_3ck_ nis draft and Annex 120E, and ween 0.22 and 0.3 UI. f candidate limits in the next of one. <i>Response Status</i> O 1.1 <i>P</i> 226 Nvidia	easurement worl _adhoc_01a_092 d the ESMW in A draft, or a single I	ks with or without a DFE 2320.pdf . Innex 120E is right, imit if we have enough

C/ 120G	SC 120G.3.1.1	I P 226	L 41	# 242
Dawe, Pier	S	Nvidia		
Comment 7 per lan		Comment Status X		
Suggested for eac	2			
Proposed I	Response	Response Status O		
C/ 120G	SC 120G.3.2	P 229	L17	# 243

Dawe, Piers

Comment Type TR Comment Status X

We need ESMW limits because in C2M, the effects of driver jitter and part-channel are limited in combination not separately. Eye width measurement works with or without a DFE in the reference receiver; examples in louchet_3ck_adhoc_01a_092320.pdf .

Nvidia

Annex 120E has NE ESMW 0.265 UI. Here we expect worse reflections but a more capable equaliser. If we stay with the two-settings method, ESMW should be somewhere in the range 0.2 to 0.265 UI

SuggestedRemedy

Write down a range of candidate limits in the next draft, or a single limit if we have enough information to choose one.

Proposed Response Response Status **O**

-				
C/ 120G	SC 120G.3.2	P 229	L19	# 244
Dawe, Piers		Nvidia		
Comment Ty		Comment Status ¥		

Comment Type TR Comment Status X

For a reasonably clean module (or test equipment in a host stressed eye test), the driver swing has to be aggressively reduced to deliver only 24 mV. If the module is set to the "near" setting, and the host receiver isn't that near, the eye it is offered is smaller than 24 mV because of loss, and out of tune as well. 120E has 70 mV.

SuggestedRemedy

Change the NEEH from 24 mV to 50 mV.

Proposed Response Response Status O

C/ 120G S	C 120G.3.2	P 229	L 22	# 245
Dawe, Piers		Nvidia		
Comment Type	∋ T	Comment Status X		

We need ESMW limits because in C2M, the effects of driver jitter and part-channel are limited in combination not separately. Eye width measurement works with or without a DFE in the reference receiver; examples in louchet_3ck_adhoc_01a_092320.pdf. Annex 120E has FE ESMW 0.2 UI, no explicit VEC limit, and EH 30 mV. Here we expect worse reflections but a more capable equaliser. If we stay with the two-settings method, ESMW should be somewhere in the range 0.16 to 0.2 UI. But 0.16 seems too small.

SuggestedRemedy

Write down a range of candidate limits in the next draft, or a single limit if we have enough information to choose one.

Proposed Response Response Status **O**

C/ 120G SC 120G.3.2	2 P 229	L 26	# 246
Dawe, Piers	Nvidia		
Comment Type T	Comment Status X		

We don't know what to do with far-end pre-cursor ISI ratio. It was copied in from a spec with a very different reference receiver. In this scenario, we don't know what it's for, what a limit should be, or why.

I believe that the ordinary EH, EW and VEC specs with this reference receiver will defend receivers from the same threats that far-end pre-cursor ISI ratio in 120E was intended to guard against, except possibly for some drivers with exemplary noise, jitter and distortion but not so well tuned which can be received anyway.

SuggestedRemedy

We could leave this TBD hanging around in case someone finds a use for it, or clean it up for now while no-one has. We can bring it back later if justified.

Proposed Response Response Status **O**

C/ 120G SC 120G.3	.2.1 P229	L 46	# 247	C/ 120G	SC 120G.3.3.	.2 P2:	32 L17	# 250
awe, Piers	Nvidia			Dawe, Piers		Nvidia		
Comment Type TR	Comment Status X			Comment Ty	/pe TR	Comment Status	х	
work. If the module is it is offered is smaller	I, the 2-settings method with or s set to the short setting, and t t than 24 mV because of loss, g and the host isn't that long, th setting is usable.	he host receiver and out of tune a	isn't that near, the eye is well. If the module is	we stay specifica paramet	with the 2-settination method, there is anyway.	ngs module specifica	tion, even if corrected	e another comment). If with a 4-loss should include near-end
uggestedRemedy				SuggestedR		ar-end parameters.		
	ance losses forming two overla is much preferable for avoidin			Proposed R		Response Status	0	
Proposed Response	Response Status O			C/ 120G	SC 120G.3.3	.2.1 P2:	32 L33	# 251
				Dawe, Piers		Nvidia		
/ 120G SC 120G.3	.2.2.1 P230	L 47	# 248	Comment Ty	/pe T	Comment Status	х	
Dawe, Piers	Nvidia					the SJ table but doe ar tables say that the		at to do. Other clauses
21	Comment Status X				J tones at once		entiles are used one	at a time (you don't app
~9.6dB	Comment Status X				J tones at once		entries are used one	at a time (you don't app
~9.6dB SuggestedRemedy				all the S SuggestedR	J tones at once	e).		at a time (you don't app
~9.6dB SuggestedRemedy approximately 9.6 spa	ace dB			all the S SuggestedR	J tones at once <i>emedy</i> nake this explic	e).		at a time (you don't app
~9.6dB SuggestedRemedy approximately 9.6 spa				all the S <i>SuggestedR</i> Please r	J tones at once <i>emedy</i> nake this explic	e). sit.		at a time (you don't app
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response	ace dB Response Status O			all the S <i>SuggestedR</i> Please r	J tones at once <i>emedy</i> nake this explic	e). sit. Response Status	0	# 252
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response Cl 120G SC 120G.3.	ace dB Response Status O .2.2.1 P230	L 49	# 249	all the S SuggestedR Please r Proposed R	J tones at once lemedy nake this explic esponse SC 120G.3.3 .	e). sit. Response Status	0 33 L43	
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response C/ 120G SC 120G.3. Dawe, Piers	ace dB <i>Response Status</i> O .2.2.1 P230 Nvidia	L 49	# 249	all the S SuggestedR Please r Proposed R Cl 120G	J tones at once lemedy make this explic esponse SC 120G.3.3 .	e). sit. Response Status 2.1 P2:	O 33 L 43	
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response Cl 120G SC 120G.3. Dawe, Piers Comment Type E	ace dB Response Status O .2.2.1 P230	-		all the S SuggestedR Please r Proposed R Cl 120G Dawe, Piers Comment Ty "Meeting	J tones at once lemedy make this explice esponse SC 120G.3.3 .	e). cit. <i>Response Status</i> .2.1 <i>P</i> 2: Nvidia <i>Comment Status</i> irements at only one	O 33 L 43 X	
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response 2/ 120G SC 120G.3. Dawe, Piers Comment Type E with an exception to u	ace dB <i>Response Status</i> O .2.2.1 <i>P</i> 230 Nvidia <i>Comment Status</i> X	-		all the S SuggestedR Please r Proposed R Cl 120G Dawe, Piers Comment Ty "Meeting	J tones at once lemedy nake this explic esponse SC 120G.3.3. upe T g the BER reque eds to choose right	e). cit. <i>Response Status</i> .2.1 <i>P</i> 2: Nvidia <i>Comment Status</i> irements at only one	O 33 L 43 X	# [252
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response Cl 120G SC 120G.3. Dawe, Piers Comment Type E with an exception to u SuggestedRemedy	ace dB <i>Response Status</i> O .2.2.1 <i>P</i> 230 Nvidia <i>Comment Status</i> X	nd C1 are both 0 i	nF	all the S SuggestedR Please r Proposed R Cl 120G Dawe, Piers Comment Ty "Meeting host nee SuggestedR If the 2-5	J tones at once lemedy make this explice esponse SC 120G.3.3. ype T g the BER requent ds to choose ri- lemedy settings method	e). cit. <i>Response Status</i> 2.1 <i>P</i> 2: Nvidia <i>Comment Status</i> irements at only one ight as well. d is kept, say that me	O 33 L43 X of the methods is suff eting the BER require	# 252
~9.6dB SuggestedRemedy approximately 9.6 spa Proposed Response Cl 120G SC 120G.3. Dawe, Piers Comment Type E with an exception to u SuggestedRemedy	ace dB <i>Response Status</i> O .2.2.1 <i>P</i> 230 Nvidia <i>Comment Status</i> X use zp = 244.7 mm, and C0 an	nd C1 are both 0 i	nF	all the S SuggestedR Please r Proposed R Cl 120G Dawe, Piers Comment Ty "Meeting host nee SuggestedR If the 2-5	J tones at once lemedy make this explice esponse SC 120G.3.3. ype T g the BER requireds to choose re- lemedy settings method hods that the her	e). sit. <i>Response Status</i> 2.1 <i>P</i> 2: Nvidia <i>Comment Status</i> irements at only one ight as well.	O 33 L43 X of the methods is suff eting the BER require ht.	# 252

Comment ID 252

C/ 120G SC 120G.3.3.								
or 120G 00 120G.3.3.	2.1 P233	L 49	# 253	C/ 120G SC	C 120G.5.2	P 240	L10	# 256
Dawe, Piers	Nvidia			Dawe, Piers		Nvidia		
Comment Type T	Comment Status X			Comment Type	т	Comment Status X		
120E.3.2.1.2						C with stronger gDC2, we d		
SuggestedRemedy				gCD2 = -1 t to vary like		B for gDC2 = -3 - yet we c	lon't expect the n	naximum channel loss
	or delete the sentence. I be -emphasis capability is likely			SuggestedRem	edy			
to meet this requiremen	t." would still apply.			I think we s end.	hould be allo	wing stronger gDC with we	aker gDC2, for T	P1a and for TP4 far
Proposed Response	Response Status O			Proposed Resp	onse	Response Status O		
C/ 120G SC 120G.3.4.	1.1 <i>P</i> 237	L14	# 254					
Dawe, Piers	Nvidia				C 120G.5.2	P 241	L 27	# 257
Comment Type T	Comment Status X			Dawe, Piers		Nvidia		
"This CTLE setting has	to be greater than or equal to	o TBD dB": with a	a compound CTLE, it's	Comment Type		Comment Status X		
				colutions th				
					ISI ratio woul	onstraint not goal). We dic d be a constraint too if it re		thing new here.
	Response Status O			Pre-cursor SuggestedRem Change:	ISI ratio woul <i>edy</i> neight also co		mains.	
Proposed Response CI 120G SC 120G.4.1	Response Status 0 P 238 Nvidia	L 34	# 255	Pre-cursor I SuggestedRem Change: where eye I the interfact to: where the e	ISI ratio woul <i>edy</i> neight also co e. eye also com	d be a constraint too if it re omplies with the specificati plies with the specifications	emains. on for eye height	(min) as specified for
Proposed Response Cl 120G SC 120G.4.1 Dawe, Piers Comment Type T	P238	-		Pre-cursor I SuggestedRem Change: where eye I the interfact to: where the e	ISI ratio woul edy neight also co e. eye also com as specified	d be a constraint too if it re omplies with the specificati	emains. on for eye height	(min) as specified for
Proposed Response Cl 120G SC 120G.4.1 Dawe, Piers Comment Type T I'm sure there could be a SuggestedRemedy	P238 Nvidia Comment Status X an acceptable channel that f	ailed this mask a		Pre-cursor SuggestedRem Change: where eye h the interface to: where the e applicable, Proposed Resp	ISI ratio woul edy neight also co e. eye also com as specified onse	d be a constraint too if it re omplies with the specifications for the interface. <i>Response Status</i> O	emains. on for eye height s for eye height, f	(min) as specified for
Proposed Response Cl 120G SC 120G.4.1 Dawe, Piers Comment Type T I'm sure there could be SuggestedRemedy Make the straight sectio	P238 Nvidia Comment Status X an acceptable channel that f	ailed this mask a		Pre-cursor I SuggestedRem Change: where eye H the interfact to: where the e applicable, Proposed Resp	ISI ratio woul edy neight also co e. eye also com as specified	d be a constraint too if it re omplies with the specifications for the interface. <i>Response Status</i> O	emains. on for eye height	(min) as specified for
Proposed Response CI 120G SC 120G.4.1 Dawe, Piers Comment Type T I'm sure there could be SuggestedRemedy Make the straight sectio	P238 Nvidia Comment Status X an acceptable channel that f	ailed this mask a		Pre-cursor I SuggestedRem Change: where eye h the interface to: where the e applicable, Proposed Resp C/ 120G So Dawe, Piers Comment Type	ISI ratio woul edy neight also co e. eye also com as specified onse C 120G.5.3 TR	d be a constraint too if it re omplies with the specifications for the interface. <i>Response Status</i> O <i>P</i> 241 Nvidia <i>Comment Status</i> X	emains. on for eye height s for eye height, f	(min) as specified for
Proposed Response Cl 120G SC 120G.4.1 Dawe, Piers Comment Type T I'm sure there could be SuggestedRemedy Make the straight sectio	P238 Nvidia Comment Status X an acceptable channel that f	ailed this mask a		Pre-cursor I SuggestedRem Change: where eye H the interfact to: where the e applicable, Proposed Resp Cl 120G So Dawe, Piers Comment Type The valid so	ISI ratio woul edy height also co e. eye also com as specified onse C 120G.5.3 TR etting would I	d be a constraint too if it re omplies with the specifications for the interface. <i>Response Status</i> O <i>P</i> 241 Nvidia	emains. on for eye height s for eye height, f	(min) as specified for
Dawe, Piers Comment Type T I'm sure there could be a SuggestedRemedy	P238 Nvidia Comment Status X an acceptable channel that f	ailed this mask a		Pre-cursor I SuggestedRem Change: where eye H the interfact to: where the e applicable, Proposed Resp Cl 120G So Dawe, Piers Comment Type The valid so SuggestedRem	ISI ratio woul edy neight also co e. eye also com as specified onse C 120G.5.3 TR etting would h edy	d be a constraint too if it re omplies with the specifications for the interface. <i>Response Status</i> O <i>P</i> 241 Nvidia <i>Comment Status</i> X	emains. on for eye height s for eye height, f <i>L</i> 34 ESMW too.	(min) as specified for

Comment ID 258

C/ 120G SC 120G.5.3	8 P 241	L 37	# 259	C/ FM	SC FM	P 20	L16	# 262
Dawe, Piers	Nvidia			Dawe, Pie	ers	Nvidia		
Comment Type T	Comment Status X			Comment	Туре Е	Comment Status X		
The pulse peak is not a of 120G.5.2, but it's clo	at the same time as the DFE ose. No need for both.	sampling phase	ts determined in step d	Italics Suggeste				
SuggestedRemedy	the pulse at the DFE samplin	a phase ts or de	slate the subclause	00	d be upright as ι	isual?		
Proposed Response	Response Status O			Proposed	Response	Response Status O		
C/FM SC FM		L8	# 260	C/ 1	SC 1.1.3.2	P 30	L 21	# 263
Dawe, Piers	Nvidia			Dawe, Pie		Nvidia		
Comment Type E	Comment Status X			Comment	51	Comment Status X out 100GAUI-n, 200GAUI-n ar		
Amendment: Standard for Ethernet , repetition?	Amendment:			are no shoul	ot interoperable. d not be adding r	t allows maximum flexibility" v Some of these errors should new ones.		
SuggestedRemedy Draft standard for Ethe	ernet			Suggeste		ne version (100GAUI-1)" to "a	nd two one-lane	versions (100GALII-
Amendment: or Standard for Ethernet				1),". Chan	0	ne version (200GAUI-2)" to "a		,
Draft amendment: Also on page 29.				2),". Chan 4),".	ge "and a four-la	ne version (400GAUI-4)" to "a	nd two four-lane	versions (400GAUI-
Proposed Response	Response Status O			Proposed	Response	Response Status O		
C/FM SC FM	P 10	L1	# 261	C/ 1	SC 1.3	P31	L14	# 264
Dawe, Piers	Nvidia			Dawe, Pie	ers	Nvidia		
Comment Type E	Comment Status X			Comment	Туре Е	Comment Status X		
XX Month 201X				The b 2015	ase document su	ubclause 1.3 already has an e	entry for SFF-866	65, Rev 1.9, June 29,
SuggestedRemedy								
XX Month 202X				Suggeste	•			
Proposed Response	Response Status 0				e this duplicate	_		
				Proposed	Response	Response Status O		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

Comment ID 264

C1 1SC 14.36P32L1# 265C1 (28SC 162BL12# 268Dawe, PiersNvidiaComment TypeEComment Status X1.4.36isn't inserted by 802.3cd, it's in the base documentSuggestedRemedyChange 'as inserted' to 'as modified'Proposed ResponseResponse Status OCi 1SC 1.4.36P32L6# 266Dawe, PiersNvidiaComment TypeTRComment Status XThis says that there is one version of 100GAUI-1,''to ''and two single-lane versions (100GAUI-1)''s to ''and two single-lane versions (100GAUI-1)''sChange FiersNvidiaComment TypeTComment Status XThe (See this for this, Hat is for the status XChange Cause 135, Annex 120G for 100GAUI-1,'' to ''and two single-lane versions (100GAUI-1)'.Ci 1SC 14.36P32Ci 1SC 14.36 <tr< th=""><th>~</th><th>00 4 4 99</th><th>222</th><th>1.4</th><th>#</th><th></th><th></th><th>1.00</th><th>"</th></tr<>	~	00 4 4 99	222	1.4	#			1.00	"
Comment Type E Comment Status X 1.4.36 isn't inserted by 802.3cd, it's in the base document SuggestedRemedy Change 'as inserted' to 'as modified' Proposed Response Response Status O Ci 1 SC 1.4.36 Dewe, Piers Nvidia Comment Type The Comment Status X This says that there is one version of 100GAUI-11' to 'and two single-lane versions (100GAUI-11') to 'Clause 135 and Annex 120F or 100GAUI-1.'. to 'Clause 135 and Annex 120F or Annex 12	-		-	<i>L</i> 1	# 265			L32	# 268
1.4.36 isn't inserted by 802.3cd, it's in the base document SuggestedRemedy Change 'as inserted by 802.3cd, it's in the base document SuggestedRemedy Change 'as inserted by 802.3cd, it's in the base document SuggestedRemedy Change 'as inserted by 802.3cd, it's in the base document Change 'as inserted 'b' 'as modified' Proposed Response Response Status 0 Cl 1 SC 14.36 P32 L6 # 266 Dawe, Piers Nvidia Comment Status X TP3 test fixture insertion loss' to 'TP2 or TP3 test fixture insertion loss' to 'TP3 or 'TP3 test fixture insertion loss' to 'TP2 or TP3 test fixture insertion loss' to 'TP3 or 'TP3 test fixture insertion loss' to 'TP3 or 'TP3 or 'TP3 or 'TP3 test fixture insertion loss' to 'TP3 or 'TP3 test fixture insertion loss' or 'TP3 test fixture insentint loss' to 'TP3 or 'TP3 or 'TP3 or 'TP3 te	,								
buggestedRemedy TP2 or TP3 test fixture. But I think it is the reference insertion loss of a TP2 or TP3 test fixture (similar to line 19). Change 'as inserted' to 'as modified'' Response Status 0 Change 'as inserted' to 'as modified'' It inight be clearer to re-order 'reference insertion loss' to 'TP2 or TP3 test fixture insertion loss' to 'TP3 test fixture insertion loss' to 'TP2 or TP3 test fixture insertion loss' to 'TP2 or TP3 test fixture insertion loss' to 'TP3 test fixture insertion loss' to 'TP2 or TP3 test fixture insertion loss' of 'TP3 test fixture insertion loss' to 'TP2 or TP3 test fixture insertion loss' to 'TP3 test fixture insertion loss' of 'TP3 test fixture insertion loss' to 'TP3 test fixture insertion loss' to 'TP3 test fixture insertion loss' of the mated test fixture also, on the same grapi 'T		51				51			
Proposed Response Response Status O C1 SC 1.4.36 P32 L6 # 266 Dawe, Piers Nvidia In might be clearer to re-order "reference TP2 or TP3 test fixture insertion loss", putting "reference" immediately before "insertion loss" as appropriate throughout 162B. Proposed Response Status O C1 SC 1.4.36 P32 L6 # 266 Dawe, Piers Nvidia O C I fe2B SC 162B.1.3.1 P256 L 12 # 269 Dawe, Piers Nvidia O C I fe2B SC 162B.1.3.1 P256 L 12 # 269 Dawe, Piers Nvidia Comment Status X Figure 162B-S. Nvidia Comment Status X Figure 162B-S. Figure 162B-S. Midia Comment Status X Figure 162B-S. Figure 162B-S. Midia Comment Status X Figure 162B-S. Figu	Suggeste	dRemedy		ument		TP2 or TP3 test fixtu	ure. But I think it is the reference		
21 SC 1.4.36 P32 L6 # 266 Jawe, Piers Nvidia TP3 test lixture reference einsertion loss? puttight De dealer to test list einset to test list. Pouse Change "and a single-lane version of 100GAUI-1" to "and two single-lane versions (100GAUI-1)". Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Pouse, Piers Nvidia Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Change "and a single-lane version (100GAUI-1." to "Clause 135 and Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120F or Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120F or Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120F or Monex 120F or Annex 120F	Chan	ge "as inserted" t	o "as modified"			SuggestedRemedy			
Dawe, Piers Nvidia Comment Type TR Comment Status X This says that there is one version of 100GAUI-1 when in fact there are two incompatible ones. Nvidia SuggestedRemedy Change "clause 135, Annex 120F, and Annex 120G for 100GAUI-1." Nvidia Change "clause 135, Annex 120F, and Annex 120G for 100GAUI-1." To "clause 135, Annex 120F or Annex 120G for 100GAUI-1." Nvidia Change "clause 135, Annex 120F, and Annex 120G for 100GAUI-1." To "clause 135, Annex 120F or Annex 120F or 100GAUI-1." To "clause 135, Annex 120F or Ann	Proposed	l Response	Response Status O			TP3 test fixture refe	rence insertion loss", putting "re		
Comment Type TR Comment Status X This says that there is one version of 100GAUI-1 when in fact there are two incompatible ones. Cl 162B SC 162B.1.3.1 P 256 L 12 # 269 SuggestedRemedy Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Nvidia Comment Type E Comment Status X Change "Clause 135, Annex 120G for 100GAUI-1." to "annex 120G for 100GAUI-1.". To "Clause 135 and Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120F or Annex 120G. Figure 162B-3. Mated test fixtures insertion loss, shows the maximum and minimum IL be not the reference IL. Proposed Response Response Status O O Cl 1 SC 14.36 P 32 L8 # 267 Dawe, Piers Nvidia O Comment Type E Comment Status X Why is PMA clause 135 listed but not 83 or 120 in similar text? SuggestedRemedy ? Add cross-reference to 162.8.1 Proposed Response ? Proposed Response Response Status O			-	L 6	# 266	Proposed Response	Response Status 0		
This says that there is one version of 100GAUI-1 when in fact there are two incompatible ones. Cl 162B SC 162B.1.3.1 P256 L12 # 269 SuggestedRemedy Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Nvidia Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Change "Clause 135, Annex 120F, and Annex 120G for 100GAUI-1.". To "Clause 135 and Annex 120G for 100GAUI-1.". Could be better as separate sentences: For 100GAUI-1.". SuggestedRemedy Please show the reference IL. SuggestedRemedy Proposed Response Response Status O Cl 162C SC 162C.1 P264 L52 # 270 Cl 1 SC 1.4.36 P32 L8 # 267 Dawe, Piers Nvidia Comment Type E Comment Status X Cl 162C SC 162C.1 P264 L52 # 270 Dawe, Piers Nvidia Comment Type E Comment Status X I could not easily find what DL and SL mean SuggestedRemedy Add cross-reference to 162.8.1 Proposed Response Response Status O SuggestedRemedy									
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SuggestedRemedy Change "and a single-lane version (100GAUI-1)" to "and two single-lane versions (100GAUI-1)". Change "Clause 135, Annex 120F, and Annex 120G for 100GAUI-1." to "Clause 135 and Annex 120F or Annex 120G for 100GAUI-1.". The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120F. Proposed Response Response Status O C/ 1 SC 1.4.36 P32 L8 # 267 Dawe, Piers Nvidia Comment Type E Comment Status X Why is PMA clause 135 listed but not 83 or 120 in similar text? SuggestedRemedy Ad cross-reference to 162.8.1 SuggestedRemedy Add cross-reference to 162.8.1 Proposed Response Response Status O			one version of 100GAUI-1 wr	nen in fact there	are two incompatible	Dawe Piers			
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The (See this for this, that for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could be better as separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O The (See this for that) section is becoming unwieldy: it could not easily find what DL and SL mean SuggestedRemedy Add cross-reference to 162.8.1 Proposed Response Response Status O The proposed Response Response Status O The proposed Response Response Status O		•	-	G for 100GAUI-1	." to "Clause 135 and	SuggestedRemedy			
separate sentences: For 100GAUI-1, see Clause 135 and Annex 120F or Annex 120G. Proposed Response Response Status O Cl 1 SC 1.4.36 P32 L8 # 267 Dawe, Piers Nvidia Comment Type E Comment Status X Why is PMA clause 135 listed but not 83 or 120 in similar text? SuggestedRemedy ? Cl 162C SC 162C.1 P264 L52 # 270 Dawe, Piers Nvidia Comment Type E Comment Status X I could not easily find what DL and SL mean SuggestedRemedy Add cross-reference to 162.8.1 Proposed Response Response Status O				omina unwieldy:	it could be better as	Please show the ref	erence insertion loss of the mat	ed test fixture als	so, on the same graph
Proposed Response Response Status O Cl 1 SC 1.4.36 P32 L8 # 267 Cl 1 SC 1.4.36 P32 L8 # 267 Dawe, Piers Nvidia Nvidia Dawe, Piers Nvidia Comment Type E Comment Status X I could not easily find what DL and SL mean SuggestedRemedy ? Add cross-reference to 162.8.1 Proposed Response Response Status O						Proposed Response	Response Status 0		
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Dawe, Piers Nutia Dawe, Piers Nutia Dawe, Piers Comment Type E Comment Status Comment Type E Comment Status Why is PMA clause 135 listed but not 83 or 120 in similar text? I could not easily find what DL and SL mean SuggestedRemedy Add cross-reference to 162.8.1 ? Proposed Response Response Status O						C/ 162C SC 162C.	1 P 264	L 52	# 270
Comment Type E Comment Status X I could not easily find what DL and SL mean Why is PMA clause 135 listed but not 83 or 120 in similar text? SuggestedRemedy SuggestedRemedy Add cross-reference to 162.8.1 ? Proposed Response Response Status O	/ 1	SC 1.4.36	P 32	L 8	# 267	Dawe, Piers	Nvidia		
Why is PMA clause 135 listed but not 83 or 120 in similar text? SuggestedRemedy Proposed Response Response Status O	awe, Pie	ers	Nvidia			Comment Type E	Comment Status X		
SuggestedRemedy SuggestedRemedy ? Add cross-reference to 162.8.1 ? Proposed Response Response Status		51				I could not easily fin	d what DL and SL mean		
? Proposed Response Status O	Why	is PMA clause 13	85 listed but not 83 or 120 in s	similar text?		SuggestedRemedy			
Proposed Response Response Status O	Suggeste	dRemedy				Add cross-reference	e to 162.8.1		
	?					Proposed Response	Response Status 0		
	Proposec	l Response	Response Status O						

C/ 162C SC 162C.2.1	P 268	L 6	# 271	C/ 162D SC 162D.1	P 277	L 14	# 274
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
	ne", "QSFP+ supports up to f	our lanes" and s	so on	"Hosts have six specif host.	ied MDI connectors "receptac	les"": I read this	as describing a 6-port
SuggestedRemedy				SuggestedRemedy			
Would it be clearer to s other connector types?	say "SFP+ supports one lane	in each directior	n" and similarly for the	,	types of MDI connectors "re	ceptacles" specif	fied for hosts"
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 162C SC 162C.2.2	P 268	L 46	# 272	C/ 162D SC 162D.1	P 277	L 32	# 275
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
SFP-DD supports up to	o four lanes				nost interface type" is used, ar		
				mean PMD or PHY typ mentioned just above.	be on a host. We can wordsm	nith round this be	ecause six things were
SFP-DD supports up to	o four lanes [in each direction]			be on a host. We can wordsn	nith round this be	ecause six things were
SuggestedRemedy SFP-DD supports up to Similarly for DSFP. Proposed Response	o four lanes [in each direction Response Status O]		mentioned just above. SuggestedRemedy	be on a host. We can wordsn six host interface types and n		Ű
SFP-DD supports up to Similarly for DSFP.	·]		mentioned just above. SuggestedRemedy Change "This creates			Ű
SFP-DD supports up to Similarly for DSFP. Proposed Response	Response Status O] 	# 273	mentioned just above. SuggestedRemedy Change "This creates multiple cable"	six host interface types and n		5
SFP-DD supports up to Similarly for DSFP. Proposed Response	Response Status O	-	# <mark>273</mark>	mentioned just above. SuggestedRemedy Change "This creates multiple cable"	six host interface types and n		0
SFP-DD supports up to Similarly for DSFP. Proposed Response C/ 162C SC 162C.3.3 Dawe, Piers	Response Status 0 P275	-	# 273	mentioned just above. SuggestedRemedy Change "This creates multiple cable" Proposed Response	six host interface types and n	nultiple cable" f	to "Therefore, there a
SFP-DD supports up to Similarly for DSFP. Proposed Response C/ 162C SC 162C.3.3 Dawe, Piers	Response Status 0 P 275 Nvidia Comment Status X	-	# <u>273</u>	mentioned just above. SuggestedRemedy Change "This creates multiple cable" Proposed Response Cl 163A SC 163A.1 Dawe, Piers	six host interface types and m <i>Response Status</i> 0 <i>P</i> 280 Nvidia	nultiple cable" f	to "Therefore, there a
SFP-DD supports up to Similarly for DSFP. Proposed Response Cl 162C SC 162C.3.3 Dawe, Piers Comment Type E Order of this table does	Response Status 0 P 275 Nvidia Comment Status X	-	# [<u>273</u>]	mentioned just above. <i>SuggestedRemedy</i> Change "This creates multiple cable" <i>Proposed Response</i> <i>Cl</i> 163A SC 163A.1	six host interface types and m Response Status 0 P 280	nultiple cable" f	to "Therefore, there a
SFP-DD supports up to Similarly for DSFP. Proposed Response Cl 162C SC 162C.3.3 Dawe, Piers Comment Type E Order of this table does SuggestedRemedy Please re-order the ent Also, there is no MDI3	Response Status 0 P 275 Nvidia Comment Status X	L 22	imbering the items.	mentioned just above. SuggestedRemedy Change "This creates multiple cable" Proposed Response CI 163A SC 163A.1 Dawe, Piers Comment Type E	six host interface types and m <i>Response Status</i> 0 <i>P</i> 280 Nvidia	nultiple cable" f	to "Therefore, there a

C/ 163A	SC 163A	.3.1 P28	1 L 22	# 277
Dawe, Piers		Nvidia		
Comment Ty	/ре Т	Comment Status	x	
		n "virtual reference channe find any other "reference of		eal than the other blocks in t.
SuggestedR Change	-	o "reference channel" or "r	eference test chanr	nel" throughout.
Proposed R	esponse	Response Status	0	
C/ 163A	SC 163A	.3.1 P28	1 <i>L</i> 31	# 278
Dawe, Piers		Nvidia		
Comment Ty The mat		Comment Status NOTE needs to be norma		
SuggestedR Move it		ext at line 42		
Proposed R	esponse	Response Status	ο	
C/ 163	SC 163.9).3.3 P18	2 L3	# 279
Li, Mike		Intel		
Comment Ty Np TBD	•	Comment Status	x	
SuggestedR	emedy			
Np = 29	, see li_3cł	<_01_0920		
Proposed R	esponse	Response Status	0	
C/ 120F	SC 120F	.3.2.3 P21	3 L1	# 280
Li, Mike		Intel		
Comment Ty Np TBD		Comment Status	x	
SuggestedR Np = 11	-	<_01_0920		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

Comment ID 280

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