C/ 163A SC 163A.3.1.1 P 287 L 21 # 1	C/ 163A SC 163A.4.1 P 289 L 1 # 3
Mellitz, Richard Samtec	Mellitz, Richard Samtec
Comment Type TR Comment Status X	Comment Type TR Comment Status X
Equation 163A-3 seems incorrect for a pulse response, h(t). V_ref is intended to be a scalar not a vector function of t. I believe the idea is to be just add up Nv UI(T_b) shifted pulse responses.	Figure 164A-3 is confusing and not entirely correct for ERL. The filter used for ERL is F_r not F_BT. The ifft is for a reflection and hard to show in the diagram.
SuggestedRemedy	SuggestedRemedy
In Equation 163A-3:	Omit reference to ERL in the first sentence of 164A.3.1 and figure 164A-2.
Replace $V_f^{(ref)}$ with $V_f_Nv(t)$. $V_f^{(ref)}$ is the last value of $v(t)$.	Add a line at end of 164-A-3.1.
Or $V_f^{(ref)} = V_f_Nv(T_s+nV^*T_b)$ This would arguing defining T_s in the prior property of the time where h(t) meshes the	The differential return loss at TP5v is used to compute ERL. The channel used to comput ERL is the reference channel S^(0) cascaded with the parallel circuit for Rd.
This would require defining T_s in the prior paragraph as the time where h(t) reaches the peak value.	Proposed Response Response Status O
Proposed Response Response Status O	C/ 120G SC 120G.5.2 P 246 L 23 # 4
2/ 163A SC 163A.3.1 P286 L 16 # 2	Mellitz, Richard Samtec
lellitz, Richard Samtec	Comment Type TR Comment Status X
<i>Comment Type</i> TR <i>Comment Status</i> X Figure 163A-3 is confusing and not entirely correct for ERL. The filter used for ERL is F_r not F_BT. The ifft is for a reflection and hard to show in the diagram.	Step h and j in 120G.5.2 Eye opening measurement method indicate "over the time interval ts s \pm 0.05 UI and not "within 0.025 UI of time TCmid" Comment 41 was resolved with "Alt. 2" with TBD = 50 mUI from healey_3ck_02_1020 indicating 1 window around Ts for histogram measurements.
uggestedRemedy	SuggestedRemedy
Omit reference to ERL in the first sentence of 163A.3.1 and figure 163A-2.	remove "and not within 0.025 UI of time Tcmid from steps h and j in 120G.5.2
Add a line at end of 163-A-3.1.	Proposed Response Response Status O
The differential return loss at TP0v is used to compute ERL. The channel used to compute ERL is the reference channel S^(0) cascaded with the parallel circuit for Rd.	C/ 120G SC 120G.3.1 P 231 L 17 # 5
roposed Response Response Status O	Mellitz, Richard Samtec
	Comment Type TR Comment Status X
	EH and VEC need be to computed for the histogram window.
	SuggestedRemedy
	Change Eye height, differential (min) to 10 mV Change Vertical eye closure (max) to 13 dB Presentation available
	Proposed Response Response Status O
	Proposed Response Response Status O

C/ 162B SC 162B.1	P 259	L 17	# 6	C/ 162D SC 162D.	1.1 P 283	L 31	# 9
Dudek, Mike	Marvell			Dudek, Mike	Marvell		
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
	TP1 or TP4 etc. are made wi	th the Cable Ass	sembly Test fixture	The 100GBASE-CF	R2 in the Title of Table 162D-3 s	hould be 200GB/	ASE-CR2.
· · · ·	ted test fixture (162B.1.3)			SuggestedRemedy			
SuggestedRemedy				Change it			
On line 18 change 162	2B.1.3 to 162B.1.2			Proposed Response	Response Status 0		
Proposed Response	Response Status O						
				C/ 162D SC 162D.	1.1 P 283	L 50	# 10
C/ 162B SC 162B.1.3		L 41	# 7	Dudek, Mike	Marvell		
Dudek, Mike	Marvell			Comment Type E	Comment Status X		
Comment Type T	Comment Status X			There is an unfortur	nate page break in the middle of	f Table 162D-3	
Table 162B-2 is relate	ed to crosstalk parameters no	t ERL		SuggestedRemedy			
SuggestedRemedy				00 ,	o that this table is all on one pag	le	
Change 162B-2 to 162	2B-1 (two places0			Proposed Response	Response Status O		
Proposed Response	Response Status O						
			"	C/ 163A SC 163A.	4.1.2 <i>P</i> 289	L 46	# 11
C/ 162B SC 162B.1.3	3.2 P 262	L 43	# 8	Dudek, Mike	Marvell		
Dudek, Mike	Marvell			Comment Type E	Comment Status X		
Comment Type TR	Comment Status X			missing space betw	veen "in" and "93A.5"		
	test fixture should be signific			SuggestedRemedy			
	under test. The ERL of the .g Didel_3ck_01_0320. has a			fix it			
SuggestedRemedy				Proposed Response	Response Status O		
Change TBD to 14dB.	Also put this in TF2 of the P	ICS.			,		
Proposed Response	Response Status 0						

CI 163B SC 163B.2	P 291	L 9	# 12	C/ 120G SC 120G.1	P 229	L 3	# 15
Dudek, Mike	Marvell			Dudek, Mike	Marvell		
Comment Type TR	Comment Status X			Comment Type E 0	Comment Status X		
	fixture moved to an Annex it e package parameters etc.	s necessary to	refer to the relevant	Clause 116.1.4 is included SuggestedRemedy	in the draft and should b	e a hot link	
SuggestedRemedy				Make this a hot link.			
methodology in 163A.3	xture, the reference values d are listed in Table 163B–1" ording to the methodology in d in Table 163B–1"	o "For this test	fixture, the reference		esponse Status O		
Proposed Response	Response Status 0			C/ 120G SC 120G.1	P 229	L 2	# 16
				Dudek, Mike	Marvell		
	D a a /		"	Comment Type TR 0	Comment Status X		
C/ 120G SC 120G.3.2		L 10	# 13	135.1.5 does not appear to	exist and if it did it is unl	ikely to include t	hese AUI's
Dudek, Mike	Marvell			SuggestedRemedy			
Comment Type T The references for both output. They should be	Comment Status X n near and far eye measurem to the module output	ents in table 12	0G-3 are to the host	Change the reference from reference to a tabke or cre 135.1.4			
SuggestedRemedy				Proposed Response R	esponse Status O		
Change the reference f	rom 120G.3.1.5 to 120G.3.2	2					
Proposed Response	Response Status O			C/ 120G SC 120G.3.2.2	P 235	L 34	# 17
				Dudek, Mike	Marvell		
C/ 120G SC 120G.3.1	.5 P 233	L 17	# 14	Comment Type TR 0	Comment Status X		
Dudek, Mike	Marvell			The module near-end output			
Comment Type TR	Comment Status X			to the largest and fastest si signal can be slower.	ignal that the host can su	ipply. The risetir	ne for the far -end
	should be measured with a c			•			
and fastest signal that a should be measured fro	a module is allowed to create	and the crossta	alk signal risetime	SuggestedRemedy Change "The crosstalk ger	perator is calibrated at TD	21a (without the u	ise of a reference
SuggestedRemedy	511 20 /0 10 00 /0.			receiver) with target differe	ntial peak-to-peak amplit	ude of TBD mV a	and target transition
,	erential peak-to-peak amplitu	de of 900mV an	d the slew time to be	time of TBD ps." to "The cr			
	en -270mV and +270mV			reference receiver) with tar transition time of 7.5 ps for			
Proposed Response	Response Status O			for the far-end measurmen		0	- 1 -

Response Status 0 Proposed Response

	3.3.2	P 238	L 6	# 18	C/ 120G	SC 120G.1	P 229	L 5	# 21
Dudek, Mike		Marvell			Dudek, Mike		Marvell		
comment Type T	Comment S	Status X			Comment Ty	rpe E	Comment Status X		
The host only needs clear in this "shall" s		ne near-end or	far-end paramete	ers. This should be	Annex 1 SuggestedR		are part of this draft.		
SuggestedRemedy					00	erneuy ese references	hat linka		
Change " The input to The input shall s parameters in Table	atisfy the input to			ters in Table 120G–7" d or the far-end	Proposed Re		Response Status O		
Proposed Response	Response S	Status O			C/ 162B	SC 162B.1	P 259	L 17	# 22
					Dudek. Mike		Aarvell	217	# 22
C 120G SC 120G.	3.3.2.1	P 238	L 54	# 19	Comment Tv		Comment Status X		
udek, Mike		Marvell	-0.		· · · · ,		TP2 or TP3 etc. are made	with the Test fixtur	re (162B.1.1) not th
Comment Type TR	Comment S					est fixture (162			
			ssed signal shou	uld match thecrosstalk	SuggestedR	emedy			
used for the test for					On line ?	7 change 162	B.1.3 to 162B.1.1		
SuggestedRemedy					Proposed Re	esponse	Response Status O		
				n of the stressed signal	·		,		
	with torget and liter								
are asynchronous w		" to "The count							
80% target transition	n time of TBD ps.				C/ 162	SC 162.9.3	P 152	L 30	# 23
80% target transition calibration of the str amplitude of 870 m	n time of TBD ps. ressed signal are a V and target trans	asynchronous sition time of 7.	with target differ 5 ps for the near	rential peak-to-peak	C/ 162 Brown, Matt	SC 162.9.3	Р 152 Нuawei	L 30	# 23
80% target transition calibration of the str amplitude of 870 m ¹ target transition time	n time of TBD ps. ressed signal are V and target trans e of 15 ps for the	asynchronous sition time of 7. e far-end calibra	with target differ 5 ps for the near	rential peak-to-peak			-	L 30	# 23
80% target transition calibration of the str amplitude of 870 m ¹ target transition time	n time of TBD ps. ressed signal are a V and target trans	asynchronous sition time of 7. e far-end calibra	with target differ 5 ps for the near	rential peak-to-peak	Brown, Matt Comment Ty In Table	rpe T	Huawei		
80% target transition calibration of the str amplitude of 870 m ¹ target transition time troposed Response	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response</i> S	asynchronous sition time of 7. e far-end calibr Status O	with target differ 5 ps for the near ation"	rential peak-to-peak end calibration and	Brown, Matt Comment Ty In Table	rpe T 162-10, the sp ss is TBD.	Huawei Comment Status X		
80% target transition calibration of the str amplitude of 870 m target transition time Proposed Response	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response</i> S	asynchronous sition time of 7. e far-end calibra Status O P 242	with target differ 5 ps for the near	rential peak-to-peak	Brown, Matt Comment Ty In Table return lo SuggestedR	rpe T 162-10, the sp ss is TBD. emedy	Huawei Comment Status X		
80% target transition calibration of the str amplitude of 870 m ¹ target transition time Proposed Response C/ 120G SC 120G. Dudek, Mike	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response</i> S	asynchronous sition time of 7. e far-end calibr Status O	with target differ 5 ps for the near ation"	rential peak-to-peak end calibration and	Brown, Matt Comment Ty In Table return lo SuggestedR	rpe T 162-10, the sp ss is TBD. emedy a value or equa	Huawei Comment Status X becified value for transmitte		
80% target transition calibration of the str amplitude of 870 m target transition time Proposed Response	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response S</i> 3.4.1.1	asynchronous sition time of 7. e far-end calibra Status O P 242 Marvell Status X	with target differ 5 ps for the near ation" <i>L</i> 2	rential peak-to-peak end calibration and # 20	Brown, Matt Comment Ty In Table return lo SuggestedR Provide	rpe T 162-10, the sp ss is TBD. emedy a value or equa	Huawei Comment Status X becified value for transmitte ation and update PICS.		
80% target transition calibration of the str amplitude of 870 m ¹ target transition time Proposed Response	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response S</i> 3.4.1.1 <i>Comment S</i> in the calibration of	asynchronous sition time of 7. e far-end calibra Status O P 242 Marvell Status X of the module s	with target differ 5 ps for the near ation" <i>L</i> 2	rential peak-to-peak end calibration and # 20	Brown, Matt Comment Ty In Table return lo SuggestedR Provide	rpe T 162-10, the sp ss is TBD. emedy a value or equa	Huawei Comment Status X becified value for transmitte ation and update PICS.		
80% target transition calibration of the str amplitude of 870 m target transition time Proposed Response 2/ 120G SC 120G. Dudek, Mike Comment Type TR The crosstalk used for th	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response S</i> 3.4.1.1 <i>Comment S</i> in the calibration of	asynchronous sition time of 7. e far-end calibra Status O P 242 Marvell Status X of the module s	with target differ 5 ps for the near ation" <i>L</i> 2	rential peak-to-peak end calibration and # 20	Brown, Matt Comment Ty In Table return lo SuggestedR Provide	rpe T 162-10, the sp ss is TBD. emedy a value or equa	Huawei Comment Status X becified value for transmitte ation and update PICS.		
80% target transition calibration of the str amplitude of 870 m ¹ target transition time Proposed Response C/ 120G SC 120G. Dudek, Mike Comment Type TR The crosstalk used	n time of TBD ps. ressed signal are a V and target trans e of 15 ps for the <i>Response</i> S 3.4.1.1 <i>Comment</i> S in the calibration of the test for the hos amplitude of 900	asynchronous sition time of 7. e far-end calibra Status O P 242 Marvell Status X of the module s st output mV differential	with target differ 5 ps for the near ation" <i>L</i> 2 stressed signal s	rential peak-to-peak end calibration and # 20	Brown, Matt Comment Ty In Table return lo SuggestedR Provide	rpe T 162-10, the sp ss is TBD. emedy a value or equa	Huawei Comment Status X becified value for transmitte ation and update PICS.		

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C/ 162 SC 162.9.4	P 158	L 16	# 24	C/ 163 SC 163.10.4	P 192	L 44	# 27
Brown, Matt	Huawei			Brown, Matt	Huawei		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
In Table 162-13, the s TBD	specified value for receiver c	lifferential to comm	non-mode return loss is		r channel differential to com	mon-mode conve	rsion loss is TBD.
SuggestedRemedy				SuggestedRemedy	ation and undate DICC		
Provide a value or eq	uation and update PICS.			·	ation and update PICS.		
Proposed Response	Response Status O			Proposed Response	Response Status O		
		·		C/ 120F SC 120F.3.1	.2 P 214	L 35	# 28
C/ 162 SC 162.11	P 163	L 17	# 25	Brown, Matt	Huawei		
Brown, Matt	Huawei			· · · · ·	Comment Status X		
				Comment Type T			
51	Comment Status X specified value for cable ass	emby ERL is TBD		The editor's note writte	en in D1.0 indicates that the o value. There have been no		
In Table 162-16, the s		emby ERL is TBD		The editor's note writte	en in D1.0 indicates that the		
In Table 162-16, the s SuggestedRemedy		emby ERL is TBD		The editor's note writte	en in D1.0 indicates that the o value. There have been no		
In Table 162-16, the s SuggestedRemedy Provide a value or eq	specified value for cable ass	emby ERL is TBD		The editor's note writte if it is shown to have no SuggestedRemedy	en in D1.0 indicates that the o value. There have been no		
In Table 162-16, the s SuggestedRemedy Provide a value or eq Proposed Response	specified value for cable ass uation and update PICS.	emby ERL is TBD	# 26	The editor's note writte if it is shown to have no SuggestedRemedy Remove the editor's no	en in D1.0 indicates that the o value. There have been no ote. <i>Response Status</i> O		
In Table 162-16, the s SuggestedRemedy Provide a value or eq Proposed Response Cl 163 SC 163.9.3	specified value for cable ass uation and update PICS. <i>Response Status</i> O		# [<u>26</u>]	The editor's note writte if it is shown to have no SuggestedRemedy Remove the editor's no Proposed Response	en in D1.0 indicates that the o value. There have been no ote. <i>Response Status</i> O	o proposals accér	bied to remove the ta
In Table 162-16, the s SuggestedRemedy Provide a value or eq Proposed Response Cl 163 SC 163.9.3 Brown, Matt	specified value for cable ass uation and update PICS. <i>Response Status</i> 0 <i>P</i> 187		# <u>26</u>	The editor's note writte if it is shown to have no SuggestedRemedy Remove the editor's no Proposed Response Cl 120F SC 120F.3.2	en in D1.0 indicates that the o value. There have been no ote. Response Status O	o proposals accér	bited to remove the t
In Table 162-16, the s SuggestedRemedy Provide a value or eq Proposed Response Cl 163 SC 163.9.3 Brown, Matt Comment Type T In Table 163-8, the sp TBD	specified value for cable ass uation and update PICS. <i>Response Status</i> O <i>P</i> 187 Huawei	L 41		The editor's note writter if it is shown to have no SuggestedRemedy Remove the editor's no Proposed Response Cl 120F SC 120F.3.2 Brown, Matt Comment Type T The editor's note writte	en in D1.0 indicates that the o value. There have been not bete. <i>Response Status</i> O .3 <i>P</i> 218 Huawei	o proposals accér <i>L</i> 44 IL for stressed ing	# 29
In Table 162-16, the s SuggestedRemedy Provide a value or eq Proposed Response Cl 163 SC 163.9.3 Brown, Matt Comment Type T In Table 163-8, the sp TBD SuggestedRemedy	specified value for cable ass uation and update PICS. <i>Response Status</i> 0 <i>P</i> 187 Huawei <i>Comment Status</i> X becified value for receiver dif	L 41		The editor's note writte if it is shown to have no SuggestedRemedy Remove the editor's no Proposed Response Cl 120F SC 120F.3.2 Brown, Matt Comment Type T The editor's note writte requires no confirmation submitted.	en in D1.0 indicates that the o value. There have been no ote. <i>Response Status</i> O .3 <i>P</i> 218 Huawei <i>Comment Status</i> X en in D1.0 indicates that the	o proposals accér <i>L</i> 44 IL for stressed ing	# 29
In Table 162-16, the s SuggestedRemedy Provide a value or eq Proposed Response Cl 163 SC 163.9.3 Brown, Matt Comment Type T In Table 163-8, the sp TBD SuggestedRemedy	specified value for cable ass uation and update PICS. <i>Response Status</i> O <i>P</i> 187 Huawei <i>Comment Status</i> X	L 41		The editor's note writter if it is shown to have no SuggestedRemedy Remove the editor's no Proposed Response Cl 120F SC 120F.3.2 Brown, Matt Comment Type T The editor's note writter requires no confirmation	en in D1.0 indicates that the o value. There have been no ote. <i>Response Status</i> O .3 <i>P</i> 218 Huawei <i>Comment Status</i> X en in D1.0 indicates that the on. No proposals to change the	o proposals accér <i>L</i> 44 IL for stressed ing	# 29

IEEE P802.3ck D1.4 100/200/400	Gb/s Electrical Interfaces Task Force 5th	Task Force review comments
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Brown, Matt Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the channel maximum insertion loss requires further investigation. No proposals to change the specification have been submitted. Brown, Matt Huawei Suggested/Remedy Remove the editor's note. Provide values Provide values. Proposed Response Response Status O Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei O Cl 120G SC 120G.3.2 P 234 L 17 # 34 Brown, Matt Huawei Comment Status X In Table 120G-3.1 the specified value for Channel ERL is TBD. Suggested/Remedy Provide a value and update PICS. P 234 L 32 # 35 Brown, Matt Huawei Comment Type T Comment Status X In Table 120G-3.1 P 234 L 32 # 35 Brown, Matt Huawei Comment Type	Comment Type T Comment Status X The editor's note written in D1.0 indicates that the channel maximum insertion loss requires further investigation. No proposals to change the specification have been submitted. SuggestedRemedy Remove the editor's note. Proposed Response Response Status O Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Comment Type T Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Cl 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Comment Status X Cl 120G SC 120G.3.1 P 231 L 33 # 32	are TBD.
The editor's note written in D1.0 indicates that the channel maximum insertion loss requires further investigation. No proposals to change the specification have been submitted. Suggested/Remedy Remove the editor's note. The specified values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Cl 120F SC 120F.4.3 P 223 L 5 # 31 Comment Type T Comment Status X The specified values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Remove the editor's note. The specified values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Cl 120F SC 120F.4.3 P 223 L 5 # 31 From the specified values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output EH/VEC crosstalk parameters (4x) are TBD. Suggested/Remedy Frovide values for the host output AC CM noise represented values for the nodule output (TP4) is TBD. Suggested/Remedy Remove the editor's note written in D1.0 indicates that the specified values for host output AC CM noise reprint in D1.0 indicates that the specified values for the module output AC CM noise reprinted for the module output AC CM noise reprinted in the set of the intervent editor's note. Froposed Response Fature on firmation. No proposals to change the specified values for the set on the store. Froposed Response Status O	The editor's note written in D1.0 indicates that the channel maximum insertion loss requires further investigation. No proposals to change the specification have been submitted. SuggestedRemedy Remove the editor's note. Proposed Response Response Status 0 Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Comment Type T Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status 0 Cl 120G SC 120G.3.1 P 231 L 33 # 32 From, Matt Huawei Comment Type T Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status 0 Cl 120G SC 120G.3.1 P 231 L 33 # 32 From, Matt Huawei Comment Type T Comment Status X Fromosed Response Response Status 0 Cl 120G SC 120G.3.1 P 231 L 33 # 32 From, Matt Huawei Comment Type T Comment Status X Fromosed Response Response Status 0 Cl 120G SC 120G.3.1 P 231 L 33 # 32 From, Matt Huawei Comment Type T Comment Status X Fromosed Response Response Status 0 Cl 120G SC 120G.3.1 P 231 L 33 # 32 From, Matt Huawei Comment Type T Comment Status X Fromosed Response Response Status 0 Cl 120G SC 120G.3.1 P 231 L 33 # 32 From Matt Huawei Comment Type T Comment Status X From Status X	are TBD.
further investigation. No proposals to change the specification have been submitted. SuggestedRemedy Remove the editor's note. Proposed Response Response Status Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy SuggestedRemedy Provide a value and update PICS. Provide a value and update PICS. Provide a value and update PICS. Proposed Response Response Status O Ci 120G SC 120G.3.2 P 234 L 17 # 34 SuggestedRemedy Provide a value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Provide a value showe been submitted. Comment Type T Comment Status X The editor's note written in D 1.0 indicates that the specified values for host output AC CM noise requires confirmation. No proposals to change the specified values have been submitted. SuggestedRemedy SuggestedRemedy Remove the editor's note. Remove the editor's note. SuggestedRemedy Remove the editor's note.	further investigation. No proposals to change the specification have been submitted. SuggestedRemedy Remove the editor's note. Proposed Response Response Status Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Comment Type T Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Cl 120G SC 120G.3.2 P 234 L 17 Brown, Matt Huawei Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Cl 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Comment Status X O Cl 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Gomment Type T Comment Status X Comment Status X	are TBD.
SuggestedRemedy Remove the editor's note. SuggestedRemedy Provide values. Proposed Response Response Status O Cl 120F SC 120F.4.3 P 223 L 5 # S1 Grown, Matt Huawei Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # S2 Cl 120G SC 120G.3.1 P 231 L 33 # S2 Srown, Matt Huawei Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values for the module output AC CM noise. SuggestedRemedy Remove the editor's note. The editor's note. The editor's note.	SuggestedRemedy Remove the editor's note. SuggestedRemedy Provide values. Proposed Response Response Status O C/ 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei C/ 120G SC 120G.3.2 P 234 L 17 C/ 120G SC 120G.3.1 P 231 L 33 # 32 Sown, Matt Huawei C/ 120G SC 120G.3.1 P 231 L 33 # 32 Sown, Matt Huawei Comment Type T Comment Status X Comment Status X	
SuggestedRemedy Provide values. Proposed Response Response Status 0 C/ 120F SC 120F.4.3 P 223 L 5 # 31 Strown, Matt Huawei Brown, Matt Huawei Comment Type T Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Provide a value and update PICS. Proposed Response Response Status 0 C/ 120G SC 1206.3.1 P 231 L 33 # 32 Difform, Matt Huawei Comment Type T Comment Status X Comment Type T Comment Status X Provide a value and update PICS. Proposed Response Response Status 0 C/ 120G SC 1206.3.1 P 231 L 33 # 32 Difform, Matt Huawei Comment Type T Comment Status X Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noises SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. Remove the editor's note. Sug	SuggestedRemedy Provide values. Proposed Response Response Status O C/ 120F SC 120F.4.3 P 223 L 5 # 31 Strown, Matt Huawei C/ 120G SC 120G.3.2 P 234 L 17 Strown, Matt Huawei Brown, Matt Huawei Comment Type T Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 C/ 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei C/ 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei C/ 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei C/ 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Comment Type T Comment Status X	
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Proposed Response Response Status 0 C/ 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Brown, Matt Huawei Comment Type T Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBD. SuggestedRemedy Provide a value and update PICS. Provide a value and update PICS. Proposed Response Response Status 0 C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Comment Status X Comment Type T Comment Status X Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been accepted However, it should be noted that there is ongoing discussion on this topic. SuggestedRemedy Remove the editor's note. Remove the editor's note. Proposed Response Response Status Q C/ SuggestedRemedy Remove the editor's note. Remove the editor's note. Proposed Response Response Status Q C/ C/ 120G SC 120G.3.1 P 231 L 33 Brown, Matt Huawei <td>Proposed Response Response Status O Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Cl 120G SC 120G.3.2 P 234 L 17 Brown, Matt Huawei Brown, Matt Huawei Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Cl 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Cl 120G SC 120G.3.2 P 234 L 32 Cl 120G SC 120G.3.1 P 231 L 33 # 32 Cl 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Gomment Turo T Comment Status X Status X</td> <td></td>	Proposed Response Response Status O Cl 120F SC 120F.4.3 P 223 L 5 # 31 Brown, Matt Huawei Cl 120G SC 120G.3.2 P 234 L 17 Brown, Matt Huawei Brown, Matt Huawei Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Cl 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Cl 120G SC 120G.3.2 P 234 L 32 Cl 120G SC 120G.3.1 P 231 L 33 # 32 Cl 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Gomment Turo T Comment Status X Status X	
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Comment Type T Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been submitted. SuggestedRemedy Remove the editor's note. Remove the editor's note. Remove the editor's note.	Comment Type T Comment Status X The specified value for channel ERL is TBD. SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Comment Type T Comment Status X In Table 120G-3, the specified value for ERL at module output (TP4) is TBI SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.2 P 234 L 32 Brown, Matt Huawei Comment Type T Comment Status X	
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SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been submitted. SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.2 P 234 L 32 # 35 C/ 120G SC 120G.3.2 P 234 L 32 # 35 C/ 120G SC 120G.3.2 P 234 L 32 # 35 The editor's note indicates that the specified values for host output AC CM noise requires confirmation. No proposals to change the specified values have been submitted. SuggestedRemedy Remove the editor's note. Proposed Response Response Status O	SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Commont Status X	Э.
SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been accepted however, it should be noted that there is ongoing discussion on this topic. SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. Remove the editor's note. Proposed Response	SuggestedRemedy Provide a value and update PICS. Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Huawei Commont Type T Comment Status X	
Proposed Response Response Status O Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been accepte specified values have been submitted. SuggestedRemedy The editor's note. SuggestedRemedy SuggestedRemedy Remove the editor's note. Proposed Response Response Status O	Proposed Response Response Status O C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Commont Tuno T Commont Status X	
Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been accepted to the specified values have been submitted. Comment Type T Comment Status X SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. Proposed Response Response Status O	Proposed Response Response Status O Cl 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Brown, Matt Huawei Comment Turge T Comment Status X	
C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Huawei Brown, Matt Huawei Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise specified values have been submitted. Brown, Matt Huawei SuggestedRemedy Remove the editor's note. SuggestedRemedy Remove the editor's note. Proposed Response Response Status O	C/ 120G SC 120G.3.1 P 231 L 33 # 32 Brown, Matt Huawei Commont Tuno T Commont Status	
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Comment Type T Comment Status X The editor's note written in D1.0 indicates that the specified values for host output AC CM noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been submitted. SuggestedRemedy Remove the editor's note. Remove the editor's note.	Comment Type I Comment Status X	
The editor's note indicates that the specified values for host output AC CM noise PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been submitted. SuggestedRemedy Remove the editor's note. Proposed Response Status O	Comment Type T Comment Status X	
noise, PP output voltage, and RLCC require confirmation. No proposals to change the specified values have been submitted. However, it should be noted that there is ongoing discussion on this topic. SuggestedRemedy Remove the editor's note. Response Status O	I ne editor's note indicates that the value specified for the module output AG	
SuggestedRemedy SuggestedRemedy SuggestedRemedy Remove the editor's note. Remove the editor's note. Proposed Response Response Status O	noise, PP output voltage, and RLCC require confirmation. No proposals to change the However, it should be noted that there is ongoing discussion on this topic.	
Remove the editor's note. Remove the editor's note. Proposed Response Status O	SuggestedRemedy	
Proposed Response Response Status O	Remove the editor's note.	
Dranagad Baananaa Chatua	Proposed Response Response Status O	

C/ 120G SC 120G.3.2.2 P 235	L 33	# 36	C/ 120G SC 120G.5.2	P 246	L 38	# 40
Brown, Matt Huawei			Brown, Matt	Huawei		
Comment Type T Comment Status X			Comment Type T Comm	ent Status X		
The specified values for the module output EH/VEC cros	stalk parame	eters (2x) are TBD.	The editor's note indicates that the			e may need to be
SuggestedRemedy			updated due to measurement me	ethod being update	a in D1.4.	
Provide values.			SuggestedRemedy		and the at least an	a di se a de la francia M
Proposed Response Response Status O			Provide updated values for host on necessary and remove editor's n		put, host input, ar	nd module input if
		" [27	Proposed Response Respor	se Status O		
C/ 120G SC 120G.3.3.2.1 P 238 Brown, Matt Huawei	L 54	# 37		Daga	1.00	# 4
Comment Type T Comment Status X			C/ 162B SC 162B.1.3.1	P 262	L 36	# 41
The specified values for the host stressed input crosstalk	parameters	(2x) are TBD.	Brown, Matt	Huawei		
SuggestedRemedy	(parametere		···· //··	ent Status X		
Provide values.			The specified value for MTF FON	ILD upper limit is	STBD.	
			SuggestedRemedy			
Proposed Response Response Status O			Provide a value.			
			Proposed Response Respor	se Status O		
C/ 120G SC 120G.3.4 P 240	L 17	# 38				
Brown, Matt Huawei			C/ 162B SC 162B.1.3.2	P 262	L 43	# 42
Comment Type T Comment Status X			Brown, Matt	Huawei		
In table 120G-9, the specified value for module input ERI	L (min) is TB	D.	Comment Type T Comm	ent Status X		
SuggestedRemedy			The specified value for MTF ERL	. is TBD.		
Provide a value.			SuggestedRemedy			
Proposed Response Response Status O			Provide a value and update PICS	3.		
			Proposed Response Respor	se Status O		
C/ 120G SC 120G.3.4.1.1 P 242	L 2	# 39		-		
Brown, Matt Huawei	-					
Comment Type T Comment Status X						
The specified values for the module stressed input cross	talk paramet	ers (4x) are TBD.				
SuggestedRemedy		. /				
Provide values.						

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/ 162C SC 162C.2.2	P 275	L 12	# 43	C/ 162	SC 162.9.4.1	P 158	L 23	# 46
Brown, Matt	Huawei			Brown, Mat	t	Huawei		
Comment Type T	Comment Status X			Comment	Туре Т	Comment Status X		
The graphics in Figure	162C-3 and Figure 162C-44	are missing.		The list	t of related subcl	auses should include 10	62.9.4.2.	
SuggestedRemedy				Suggested	Remedy			
Provide graphics.				Change	e "162.9.4.3 and	162.9.4.4" to "162.9.4.2	2, 162.9.4.3, and 162	2.9.4.4".
Proposed Response	Response Status O			Proposed F	Response	Response Status O		
C/ 163B SC 163B.2	P 291	L 18	# 44	C/ 120F	SC 120F.3.1	P 212	L 50	# 47
Brown, Matt	Huawei			Brown, Mat	t	Huawei		
Comment Type T	Comment Status X			Comment T	Туре т	Comment Status X		
For the example test fix state voltage is TBD.	xture, the reference value in	Table 163B-1 for	transmitter steady-	transm	itter equalizer ma	is repeated in both 120 ay be configured via the		
SuggestedRemedy				120F.3				
Provide a value.				Suggested				
Proposed Response	Response Status O				the sentence in			
				Proposed I	Response	Response Status O		
C/ 163B SC 163B.2	P 291	L 20	# 45	<u> </u>	<u> </u>		1.07	# [10]
Brown, Matt	Huawei			C/ 136	SC 136.8.11.		L 37	# 48
Comment Type T	Comment Status X			Lusted, Ke		Intel Cor	poration	
	xture, the reference value for	transmitter linea	r fit pulse peak voltage	Comment 7	51	Comment Status X		
is TBD.						ng change proposed in g/3/ck/public/20_10/lust	ed 3ck 02 1020.pc	lf. a new variable
SuggestedRemedy				"use_q	uiet_in_training"	was defined in Clause	136.8.11.7.1. This v	variable has an explicit
Provide a value.	_							mention of the variable fusion in the industry as
Proposed Response	Response Status O			some v	endors may inte	rpret the "use_quiet_in_ intended to be mandate	training" capability	as optional to
				Suggested	Remedy			
				h) the v		ew entry to the list as fo iet_in_training" (see 136		set to TRUE for 100
				Proposed I	Response	Response Status O		

/ 162 SC 162.8.11	P 150	L 34	# 49	C/ 162	SC 162.9.3.1	ŀ	^{>} 154	L 6	# 51
usted, Kent	Intel Corporation	on		Mellitz, Ric	hard	Sa	mtec		
omment Type TR	Comment Status X			Comment	Type TR	Comment State	us X		
containing training frame receiver should react to a does not have a valid tra frames during startup are requirements.	ert local_tf_lock provided s at the PMD input" is insuff a signal that is compliant wit ining frame format. It is pos e malformed logically yet me	iciently detailed h respect to an sible that a few	d. It is unclear if a nplitude, jitter, etc but v of the first training	archite specifi the con values argum	ctures may vary cation of M woul nfidence of the re extracted from I	amongst instrume d seem straight fo esults especially w histograms. For th de for M to be at lo	ents. All thir rward. How hen we are e example	ngs being ideal, vever, what seer evaluating sigm of histogram me	ms most important is na_e, sigma_n, and easurement, and goo
IggestedRemedy				Suggested	_ ()	neusurements.			
frames at the PMD input.	provided that there is a con	npliant signal c	ontaining valid training	00		erpolations and ray	v measurer	nent adjustment	ts shall be sufficient t
	Response Status O								nd noise specification
				Proposed I	Response	Response Statu	is O		
1 SC 1.3	P 32	L 14	# 50						
sted, Kent	Intel Corporation	on		C/ 136	SC 136.8.11.	7.1 F	^o 114	L 39	# 52
mment Type E	Comment Status X			Slavick, Je	ff		adcom		
The publication date for t	he SFP-DD MSA v4.2 was a	August 17, 202	0, not August 10, 2020	Comment		Comment State			
as shown in the draft. Se DDrev4.2.pdf	e http://sfp-dd.com/wp-cont	tent/uploads/20)20/08/SFP-			ing variable contro			E otherwise" is just
uggestedRemedy				confus	ing since a bool	ean is either TRUE	or FALSE		ntence is defining wh
Change the date to Augu	st 17, 2020					IE not what makes	ITIRUE		
roposed Response	Response Status O			Suggested			fuere the first		he definition of
					uiet_in_training	FALSE otherwise"	from the fir	st sentence in t	ne definition of
				Proposed	Response	Response Statu	is O		
				C/ 136	SC 136.8.11.	7.1 ł	P114	L 39	# 53
				C/ 136 Slavick, Je			adcom	L 39	# 53

The intent of the new QUIET state is to make it so all newly developed PHYs will use this features to avoid the deadlock situation. So the QUIET state should mandatory except for 50G PHY types.

SuggestedRemedy

Change the last sentence of the use_quiet_in_training definition to read as "This variable is always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE..

Proposed Response Response Status 0

Comment ID 53

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C/ 120 SC 120.5.7.2	2 <i>P</i> 102	L 45	# 54	C/ 162A SC 162A.2	P 253	L 24	# 57
lavick, Jeff	Broadcom			Wu, Mau-Lin	MediaTek		
omment Type TR	Comment Status X			Comment Type T	Comment Status X		
	ext "The variables" and "by the			TP0a had been repla	ced by TP0v in Clause 163.9.2		
1 0	raph seems to be too much sir ble i and precoder rx in enal			SuggestedRemedy			
	the PMD control state diagram				nended transmitter characterist		
uggestedRemedy					" shall be changed to "The reco at TP0v are described in 163.9		smitter characteristic
precoder_rx_in_enable	netence to be ""precoder_tx_o e_i shall be set as determined n lane i (see Fig 136-7)"			Proposed Response	Response Status O		
roposed Response	Response Status O			C/ 162A SC 162A.3	P 253	L 29	# 58
				Wu, Mau-Lin	MediaTek		
/ 120 SC 120.5.7.2	2 <i>P</i> 102	L 30	# 55	Comment Type T	Comment Status X		
120 30 120.5.7.2	2 102	L 30	# 55		Common Claude A		
	Broadcom	L 30	# 35	51	ced by TP5v in Clause 163.9.3	i.	
lavick, Jeff		L 30	# 55	51		i.	
avick, Jeff omment Type TR In the change to the fin copper PMDs.	Broadcom			TP5a had been repla SuggestedRemedy Change "The recomn described in 163.9.3.	ced by TP5v in Clause 163.9.3 nended receiver characteristics " shall be changed to "The reco	s at TP5 as mea commended rece	
lavick, Jeff omment Type TR In the change to the fin copper PMDs. uggestedRemedy	Broadcom Comment Status X	e requirement of	f this paragraph for 50G	TP5a had been repla SuggestedRemedy Change "The recomn described in 163.9.3.	ced by TP5v in Clause 163.9.3 nended receiver characteristics	s at TP5 as mea commended rece	
avick, Jeff omment Type TR In the change to the fil copper PMDs. uggestedRemedy Add 200GBASE-KR4/	Broadcom Comment Status X rst paragph it has removed the	e requirement of	f this paragraph for 50G	TP5a had been repla SuggestedRemedy Change "The recomn described in 163.9.3. TP5 as measured at	ced by TP5v in Clause 163.9.3 nended receiver characteristics " shall be changed to "The reco TP5v are described in 163.9.3.	s at TP5 as mea commended rece	
avick, Jeff <i>omment Type</i> TR In the change to the fil copper PMDs. <i>uggestedRemedy</i> Add 200GBASE-KR4/	Broadcom Comment Status X rst paragph it has removed the CR4 to the list in both the first	e requirement of	f this paragraph for 50G	TP5a had been repla SuggestedRemedy Change "The recomn described in 163.9.3. TP5 as measured at	ced by TP5v in Clause 163.9.3 nended receiver characteristics " shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O	s at TP5 as mea commended rece	
avick, Jeff <i>pmment Type</i> TR In the change to the fin copper PMDs. <i>uggestedRemedy</i> Add 200GBASE-KR4/ <i>roposed Response</i>	Broadcom Comment Status X rst paragph it has removed the CR4 to the list in both the first Response Status O	e requirement of	f this paragraph for 50G	TP5a had been repla SuggestedRemedy Change "The recomm described in 163.9.3. TP5 as measured at Proposed Response	ced by TP5v in Clause 163.9.3 nended receiver characteristics " shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O	at TP5 as mea ommended rece	iver characteristics a
lavick, Jeff omment Type TR In the change to the fin copper PMDs. uggestedRemedy Add 200GBASE-KR4/ roposed Response	Broadcom Comment Status X rst paragph it has removed the CR4 to the list in both the first Response Status O	e requirement of and second ser	f this paragraph for 50G ntences.	TP5a had been repla SuggestedRemedy Change "The recomm described in 163.9.3. TP5 as measured at Proposed Response Cl 162 SC 162.9.3	ced by TP5v in Clause 163.9.3 nended receiver characteristics " shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O .1.4 P155	at TP5 as mea ommended rece	iver characteristics a
avick, Jeff pmment Type TR In the change to the fill copper PMDs. uggestedRemedy Add 200GBASE-KR4/ roposed Response 120 SC 120.5.7.2 avick, Jeff pmment Type TR	Broadcom Comment Status X rst paragph it has removed the CR4 to the list in both the first Response Status O 2 P 103 Broadcom Comment Status X	e requirement of and second ser	f this paragraph for 50G ntences.	TP5a had been repla SuggestedRemedy Change "The recomm described in 163.9.3. TP5 as measured at Proposed Response Cl 162 SC 162.9.3 Wu, Mau-Lin Comment Type T The step size of TX E	nended receiver characteristics shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O .1.4 <i>P</i> 155 MediaTek	s at TP5 as mea ommended rece " <i>L</i> 46	iver characteristics a # <u>59</u>
lavick, Jeff omment Type TR In the change to the fil copper PMDs. uggestedRemedy Add 200GBASE-KR4/ roposed Response / 120 SC 120.5.7.2 lavick, Jeff omment Type TR In the change to the fo	Broadcom <i>Comment Status</i> X rst paragph it has removed the CR4 to the list in both the first <i>Response Status</i> O 2 P103 Broadcom	e requirement of and second ser	f this paragraph for 50G ntences.	TP5a had been repla SuggestedRemedy Change "The recomm described in 163.9.3. TP5 as measured at Proposed Response Cl 162 SC 162.9.3 Wu, Mau-Lin Comment Type T The step size of TX E	nended receiver characteristics shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O 1.1.4 <i>P</i> 155 MediaTek <i>Comment Status</i> X Q coefficient had been change	s at TP5 as mea ommended rece " <i>L</i> 46	iver characteristics a # <u>59</u>
avick, Jeff pmment Type TR In the change to the fil copper PMDs. uggestedRemedy Add 200GBASE-KR4/ roposed Response 120 SC 120.5.7.2 avick, Jeff pmment Type TR In the change to the for 50G copper PMDs.	Broadcom Comment Status X rst paragph it has removed the CR4 to the list in both the first Response Status O 2 P 103 Broadcom Comment Status X	e requirement of and second ser	f this paragraph for 50G ntences.	TP5a had been repla SuggestedRemedy Change "The recomm described in 163.9.3. TP5 as measured at Proposed Response Cl 162 SC 162.9.3 Wu, Mau-Lin Comment Type T The step size of TX E step size" shall be measured SuggestedRemedy Change < to a requ	nended receiver characteristics shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O 1.1.4 <i>P</i> 155 MediaTek <i>Comment Status</i> X Q coefficient had been change	s at TP5 as mea commended rece <i>L</i> 46 ed from 2% to 2. ween 0.005 and	# <u>59</u> .5%. The "coefficient
lavick, Jeff <i>Comment Type</i> TR In the change to the fill copper PMDs. <i>SuggestedRemedy</i> Add 200GBASE-KR4// <i>Proposed Response</i> <i>Cl</i> 120 <i>SC</i> 120.5.7.2 lavick, Jeff <i>Comment Type</i> TR In the change to the for 50G copper PMDs. <i>SuggestedRemedy</i>	Broadcom Comment Status X rst paragph it has removed the CR4 to the list in both the first Response Status O 2 P 103 Broadcom Comment Status X	e requirement of and second ser <i>L</i> 44 he requirement	f this paragraph for 50G ntences.	TP5a had been repla SuggestedRemedy Change "The recomm described in 163.9.3. TP5 as measured at Proposed Response Cl 162 SC 162.9.3 Wu, Mau-Lin Comment Type T The step size of TX E step size" shall be measured SuggestedRemedy Change < to a requ	ced by TP5v in Clause 163.9.3 nended receiver characteristics " shall be changed to "The reco TP5v are described in 163.9.3. <i>Response Status</i> O 1.4 <i>P</i> 155 MediaTek <i>Comment Status</i> X EQ coefficient had been change odified from 0.02 to 0.025. Hest to "increment" shall be bet	s at TP5 as mea commended rece <i>L</i> 46 ed from 2% to 2. ween 0.005 and	# <u>59</u> .5%. The "coefficient

C/ 162 SC 162.	031/	P 155	L 47	# 60	C/ 120G	SC 120G.3.1	5	P 233	L 17	# 62
Wu, Mau-Lin	5.5.1.4	MediaTek	L 41	# 00	Wu, Mau-L		.5	MediaTek	217	# 02
Comment Type T	Comm	nent Status X			Comment		Comme	ent Status X		
51	X EQ coefficie	nt had been change	ed from 2% to 2.	5%. The "coefficient	There a Accord	are some TBDs ling to the analy	for crossta sis explore	lk calibration spec d in wu_3ck_adho	_02_010621.pd	lf, the target swing at
				-0.005.> to < to a	output	voltage swing a	t TP1a, wh	Module output spec ich is 870 mV now lule input specs.		d among Host output,
·		between -0.025 and	d -0.005.>.		Suggested	Remedy				
Proposed Response Cl 120G SC 1200		P 231	L 17	# 61	Host or " with	utput: 120G.3.1	.4 (Page 23 tial peak-to	to replace the origi 33, L17) -peak amplitude of		ew time of 12 ps
Wu, Mau-Lin		MediaTek			Proposed I	Response	Respon	se Status O		
Comment Type T	Comm	nent Status X					,			
VEC for "Table 12	0G-1 - Host ou	utput characteristics	at TP1a [®] and "	Decifications of EH & Fable 120G-10 - hpact by new method.	<i>Cl</i> 120G Wu, Mau-L	SC 120G.3.2	2.2	<i>Р</i> 235 MediaTek	L 33	# 63
SuggestedRemedy					Comment		Comme	ent Status X		
Propose to change Propose to change Propose to change Propose to change	e VEC from 9.0 e VEC (max) fr e VEC (min) fro	nV to 8 mV in Table 0 dB to 12.0 dB in 7 rom 9.5 dB to 12.5 rom 9.0 dB to 12.0 c vu_3ck_01_0121.pc	Fable 120G-1. dB in Table 1200 IB in Table 1200	G-10.	There a Accord TP4 sh output	are some TBDs ling to the analy nall be aligned w voltage swing a	for crossta sis explore rith that of M t TP1a, wh	lk calibration spec d in wu_3ck_adhoo Module output spec	c_02_010621.pd c, which is 900 n	If, the target swing at
Proposed Response	Respor	nse Status O			Suggested	Remedy				
						se the following		to replace the origi	nal one	

Module output: 120G.3.2.2 (Page 235, L33) "... with target differential peak-to-peak amplitude of 870 mV and target transition time of 19 ps."

Proposed Response Response Status 0

	SC 120G.3.3	. 2.1 P 2 :	38	L 54	# 64	C	120G	SC 120G.3.3.2
Wu, Mau-L	in	Media	Tek			He	ealey, Ada	im
Comment T	Туре Т	Comment Status	Х			Co	omment T	ype T
Accord TP4 sh output	ling to the analys hall be aligned w voltage swing at e output, Host in	for crosstalk calibrati sis explored in wu_3c ith that of Module out t TP1a, which is 870 i put, & Module input s	k_adhoc_02 put spec, wł mV now, sha	2_010621.pdf, nich is 900 m\	the target swing at /. Similarly, the		generate voltage three ey eye clos generate	essed input signa or output levels a tolerance specifi- ves given in Table sure." The term "o or output amplitu d but the individu
		paragraph to replace	the original o	one				level separation
		.1 (Page 238, L54)) le of 870 mV peak-to-	peak differe	ntial and 20%	to 80% target	Si	uggestedF	Remedy
transiti Proposed F	•	as measured at TP1 Response Status					"The pa the valu	e the sentence wi ttern generator o e in Table 120G- e, for the CTLE se
C/ 120G	SC 120G.3.4	.1.1 P 24	12	L 2	# 65			out voltage tolera
Wu, Mau-L		Media		L Z	π 05		level se	paration mismato
Comment		Comment Status						ed using VM0, V
								respectively kar
	51				toot			respectively. Rar
There a	are some TBDs	for crosstalk calibrati	on specs for			t	height ta	
There a Accord TP4 sh	are some TBDs ling to the analys nall be aligned w	for crosstalk calibrations for crosstalk calibrations is explored in wu_3c it hat of Module out	on specs for k_adhoc_02 put spec, wł	2_010621.pdf, nich is 900 m\	the target swing at /. Similarly, the		height ta	
There a Accord TP4 sh output	are some TBDs ling to the analys nall be aligned w voltage swing at	for crosstalk calibrati sis explored in wu_3c ith that of Module out TP1a, which is 870	on specs for k_adhoc_02 put spec, wh mV now, sha	2_010621.pdf, nich is 900 m\	the target swing at /. Similarly, the		height ta	argets. Ir change is sugg
There a Accord TP4 sh output Module	are some TBDs ling to the analys hall be aligned w voltage swing at e output, Host in	for crosstalk calibrations for crosstalk calibrations is explored in wu_3c it that of Module out	on specs for k_adhoc_02 put spec, wh mV now, sha	2_010621.pdf, nich is 900 m\	the target swing at /. Similarly, the		height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propos Module " with	are some TBDs ling to the analys hall be aligned w voltage swing at e output, Host in <i>Remedy</i> se the following p e input: 120G.3.4 h target amplitud	for crosstalk calibrati sis explored in wu_3c ith that of Module out TP1a, which is 870	on specs for k_adhoc_02 put spec, wh mV now, sha pecs. the original o	2_010621.pdf, nich is 900 m\ all be aligned a	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propos Module " with	are some TBDs ling to the analys all be aligned w voltage swing at output, Host in <i>Remedy</i> se the following p input: 120G.3.4 h target amplitud and +2.7 V of 12	for crosstalk calibratii sis explored in wu_3c ith that of Module out t TP1a, which is 870 i put, & Module input s paragraph to replace 4.1.1 (Page 242, L2) le of 900 mV peak-to-	on specs for k_adhoc_02 put spec, wh wV now, sha pecs. the original of peak differe P4"	2_010621.pdf, nich is 900 m\ all be aligned a	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propos Module " with 2.7 V a	are some TBDs ling to the analys all be aligned w voltage swing at output, Host in <i>Remedy</i> se the following p input: 120G.3.4 h target amplitud and +2.7 V of 12	for crosstalk calibratii sis explored in wu_3c ith that of Module out TP1a, which is 870 i put, & Module input s paragraph to replace 4.1.1 (Page 242, L2) le of 900 mV peak-to- ps as measured at T <i>Response Status</i>	on specs for k_adhoc_02 put spec, wh mV now, sha pecs. the original of peak differe P4" 0	2_010621.pdf, nich is 900 m\ all be aligned a	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propose Module " with 2.7 V a	are some TBDs ling to the analys hall be aligned w voltage swing at e output, Host in <i>Remedy</i> se the following p input: 120G.3.4 h target amplitud and +2.7 V of 12 <i>Response</i> SC 163.9.2.3	for crosstalk calibratii sis explored in wu_3c ith that of Module out TP1a, which is 870 i put, & Module input s paragraph to replace 4.1.1 (Page 242, L2) e of 900 mV peak-to- ps as measured at T <i>Response Status</i> <i>P</i> 11	on specs for k_adhoc_02 put spec, wh mV now, sha pecs. the original of peak differe P4" 0	2_010621.pdf, hich is 900 m all be aligned a one ntial and targe	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propose " with 2.7 V a Proposed F Cl 163 Healey, Ad Comment T	are some TBDs ling to the analys all be aligned we voltage swing at e output, Host in <i>Remedy</i> se the following p e input: 120G.3.4 in target amplitud and +2.7 V of 12 <i>Response</i> SC 163.9.2.3 am	for crosstalk calibratii sis explored in wu_3c ith that of Module out it TP1a, which is 870 i put, & Module input s paragraph to replace 4.1.1 (Page 242, L2) le of 900 mV peak-to- ps as measured at T <i>Response Status</i> <i>P</i> 11 Broad <i>Comment Status</i>	the original of peak differe P4" 0 37 com Inc.	2_010621.pdf, hich is 900 m all be aligned a one ntial and targe	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propose " with 2.7 V a Proposed F Cl 163 Healey, Ad Comment T	are some TBDs ling to the analys hall be aligned w voltage swing at e output, Host in <i>Remedy</i> se the following p e input: 120G.3.4 h target amplitud and +2.7 V of 12 <i>Response</i> SC 163.9.2.3 am <i>Type</i> E uuse title is incor	for crosstalk calibratii sis explored in wu_3c ith that of Module out it TP1a, which is 870 i put, & Module input s paragraph to replace 4.1.1 (Page 242, L2) le of 900 mV peak-to- ps as measured at T <i>Response Status</i> <i>P</i> 11 Broad <i>Comment Status</i>	the original of peak differe P4" 0 37 com Inc.	2_010621.pdf, hich is 900 m all be aligned a one ntial and targe	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg
There a Accord TP4 sh output Module Suggested Propose Module " with 2.7 V a Proposed F C/ 163 Healey, Ad Comment T Subcla	are some TBDs ling to the analys hall be aligned w voltage swing at e output, Host in <i>Remedy</i> se the following p input: 120G.3.4 h target amplitud and +2.7 V of 12 <i>Response</i> SC 163.9.2.3 am <i>Type</i> E luse title is incor <i>Remedy</i>	for crosstalk calibratii sis explored in wu_3c ith that of Module out it TP1a, which is 870 i put, & Module input s paragraph to replace 4.1.1 (Page 242, L2) le of 900 mV peak-to- ps as measured at T <i>Response Status</i> <i>P</i> 11 Broad <i>Comment Status</i>	on specs for k_adhoc_02 put spec, wh mV now, sha pecs. the original of peak differe P4" 0 37 com Inc. X	2_010621.pdf, hich is 900 m all be aligned a one ntial and targe	the target swing at /. Similarly, the among Host output	i, Pi	height ta A simila	argets. Ir change is sugg

.2.1 P 239 L 40 # 67 Broadcom Inc.

Comment Status X

nal calibration procedure states that "random jitter and the pattern are adjusted (without exceeding the differential peak-to-peak input ification as shown in Table 120G–6) to result in the eye height for all ble 120G–7 with the setting of the CTLE that minimizes the vertical "output levels" is ambiguous. It could be interpreted to be "pattern tude" or "individual PAM-4 signal levels". It seems that the latter is lual PAM-4 signal levels should not be allowed to be adjusted so far n mismatch ratio ("RLM") is too low.

with the following text:

output is adjusted so that the height of the smallest eye matches G-7, and the height of all three eyes agree to the largest extent setting that minimizes vertical eye closure. The differential peak-torance given in Table 120G-6 is not exceeded. Individual PAM-4 djusted to improve the agreement of the three eye heights but the atch ratio (RLM) is at least 0.95. RLM is defined in 120D.3.1.2 and is VM1, VM2, and VM3 as defined in 120G.5.2 in place of V0, V1, V2. andom jitter amplitude may also be adjusted to acheive the eye

gested for 120G.3.4.1.1 (page 242, line 17).

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/ 120G S	SC 120G.3.1.5	P 233	L 17	# 68	C/ 120G	SC 120G.3	.3.2.1	P 238	L 54	# 70
lealey, Adam		Broadcom Inc			Healey, Ac	lam		Broadcom In	с.	
Comment Typ	e T Com	ment Status X			Comment	Туре т	Comme	nt Status X		
	t differential peak-to-r at TP4, are TBD.	beak amplitude and s	lew time of the c	rosstalk generator, as	The ta are TE		peak-to-pea	k amplitude and t	ransition time, as	observed at TP1a,
SuggestedRei	medy				Suggested	Remedy				
module tra module ou Change: "The cross target diffe TBD V and To: "The cross	utput (as observed at stalk generator is cali erential peak-to-peak d +TBD V." stalk generator is cali tion time, as measure	e largest amplitude ar TP4) should be used brated at TP4 (withou amplitude of TBD m brated so that the dif	nd smallest trans d to represent wo ut the use of a re V and slew time ferential peak-to	ition time allowed for a orst-case aggression. of rence receiver) with of TBD ps between - -peak output voltage	input s values Chang "The c asynct target receive To: "The c stress output values	ignal calibratio measured at t e: ounter propaga nronous with ta transition time er)." ounter propaga ed signal. The voltage and tra	n, the amplitu he output of t rget amplitud of TBD ps as ating crosstall crosstalk gen ansition time,	ude and transition the host under test k signals during c le of TBD mV pea measured at TP k signals are asyn erator is calibrate	times should be st (TP1a). alibration of the s ak-to-peak differe 1a (without the u nchronous during ed so that the diff TP1a, are as clos	calibration of the erential peak-to-peak se as practical to the
/ 120G S	SC 120G.3.2.2	P 235	L 33	# 69	Proposed	Response	Respons	e Status O		
lealey, Adam		Broadcom Inc								
omment Typ		ment Status X								
The target are TBD.	t differential peak-to-p	beak amplitude and t	ransition time, as	s observed at TP1a,						
uggestedRei	medy									
transmitte output (as Change: "The cross target diffe To: "The cross	r outputs, the largest observed at TP1a) s stalk generator is cali erential peak-to-peak stalk generator is cali tion time, as measure	amplitude and small hould be used to rep brated at TP1a (with amplitude of TBD m brated so that the dif	est transition tim resent worst-cas out the use of a V and target trar ferential peak-to	e aggression. reference receiver) with sition time of TBD ps." -peak output voltage						
		onse Status O								
Proposed Res	-	-								
Proposed Res										

C/ 120G	SC 120G.3.4.1.1	P 242	L 2	# 71	C/ 120G	SC 120G.3.1	P 231	L 18	# 72
Healey, Adam		Broadcom Inc) .		Healey, Ada	am	Broadcom Inc.		
Comment Typ	e T Comme	ent Status X			Comment 7	Туре Т	Comment Status X		
observed SuggestedRea Since the stressed i	t differential peak-to-pea at TP4, are TBD. <i>medy</i> crosstalk generator is u nput signal calibration, t alues measured at the c	sed as a proxy for he amplitude and	the module trar transition times	smitter(s) during	a vertic height a eye spa measu	al slice of the e and vertical eye anning -50 to +5 rement results i increase in vert	rtical eye closure limits were bay ye at the nominal sampling tim closure in 120G.5.2 has been 50 mUI around the nominal sar mplies that the change in the n ical eye closure and a similar o	e. The measure modified to use npling time. Co neasurement m	ement method for eye e a vertical slice of the mparison of nethod results in up to
"The cour asynchror time betw reference To: "The cour stressed s output vol values me	ter propagating crossta nous with target amplitu een -TBD mV and TBD equalizer)." ter propagating crossta signal. The crosstalk get tage and transition time assured at the output of	de of TBD mV pea mV of TBD ps as lk signals are asyr herator is calibrate , as measured at 1	k-to-peak different measured at TP achronous during ad so that the dif TP4, are as clos	ential and target slew 4 (without the use of a g calibration of the ferential peak-to-peak e as practical to the	(max)" In Tabl differer eye clo In Tabl "Near-e In Tabl	to 12 dB. e 120G-3, chan ntial (min)" to 17 sure (max)" to 7 e 120G-7, chan end vertical eye	ge "Eye height, differential (min ge "Near-end eye height, differ mV and "Near-end vertical ey 10.5 dB. ge "Near-end eye height" and closure" and "Far-end vertical nge "Eye height" to 10 mV, "Vi	rential (min)" ar e closure (max) 'Far-end eye he eye closure" to	nd "Far-end eye height, " and "Far-end vertical eight" to 17 mV and 10.5 dB.
reference Proposed Res		se Status O			Proposed F	Response	Response Status 0		

C/ 120G	SC 120G.5.2	P 245	L 18	# 73
Ghiasi, Ali		Ghiasi Quantum/I	nphi	

Comment Type TR Comment Status X

In table 120G-11 we refer to TP4 near end and TP4 far end, but table 120G-4 we refer to AUI-S and AUI-L short and long. It would be helpful to be consistent with the terminology.

SuggestedRemedy

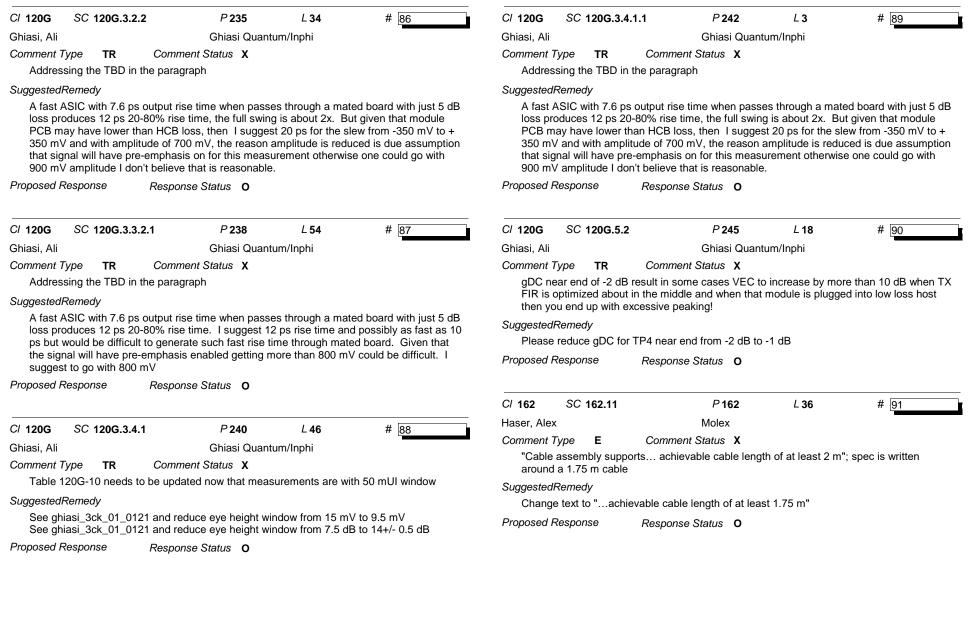
I suggest replacing TP4 near end with TP4-S or short and TP4 far end with TP4-L or long to align with AUI-S/L.

The $\overline{A}UI$ short covers from TP4 near end up to 10.975 dB, and AUI long covers from >10.975 dB to 16 dB channels.

Proposed Response Response Status **O**

C/ 120G SC 120G.3.2	1 P 235	L 10	# 74	Cl 120G	SC 120G.3.2	P 234	L 11	# 77
Ghiasi, Ali	Ghiasi Quantu	m/Inphi		Ghiasi, Ali		Ghiasi Quant	um/Inphi	
Comment Type TR	Comment Status X			Comment 7	Type ER	Comment Status X		
In table 120G-4 AUI-sh and AUI-L are!	nort and long are introduced bu	ut there is no de	escription what AUI-S	Given t	hat now we hav	e AUI-S/L near end VEC nee	ed to be defined	
				Suggestedl	Remedy			
SuggestedRemedy	nnel loss range for AUI-S and	Δ1 II_I			e opening with 3ck_01_0121	50 mUI rectangular window fo	or AUI-S is VEC	=12.5 dB, see
ghiasi_3ck_01_0121 ir indicate 10 dB is about	nvestigates possible channel lo t optimum but given how close 10.975 dB as the demarcation	oss ranges for A 10 dB is to CR	host loss of 10.975 dB	Proposed F		Response Status O		
Proposed Response	Response Status O			C/ 120G	SC 120G.3.2	P 234	L 14	# 78
				Ghiasi, Ali		Ghiasi Quant	um/Inphi	
C/ 120G SC 120G.3.2	P 234	L 11	# 75	Comment 7	Type TR	Comment Status X	·	
Ghiasi, Ali	Ghiasi Quantu	m/Inphi		Given t	hat now we have	e AUI-S/L far end VEC need	to be defined	
Comment Type TR	Comment Status X			Suggested	Remedy			
	e AUI-S/L near end eye would	I be AUI-S min	eye opening		e opening with 3ck_01_0121	50 mUI rectangular window fo	or AUI-L is VEC=	=14.5 dB, see
SuggestedRemedy				Proposed F		Response Status O		
The eye opening with t ghiasi_3ck_01_0121	50 mUI rectangular window for	AUI-S IS VEO=	-20 mV, see					
Proposed Response	Response Status O			C/ 120G	SC 120G.3.2	P 234	L 17	# 79
				Ghiasi, Ali	00 1200.3.2	Ghiasi Quant		# 19
C/ 120G SC 120G.3.2	P 234	L13	# 76	Comment 7	Type TR	Comment Status X	uniinpin	
Ghiasi, Ali	Ghiasi Quantu			ERL is	51			
Comment Type TR	Comment Status X			Suggested	Remedv			
	e AUI-S/L far end eye would b	e AUI-S min ev	ve opening	00		dB and see ghiasi_3ck_01_0)121	
SuggestedRemedy		··· ·		Proposed F		Response Status O		
,	50 mUI rectangular window for	AUI-L is VEO=	11 mV, see					
Proposed Response	Response Status O							
	,							

C/ 120G SC 120G.3.1	I P 231	L 17	# 80	C/ 120G	SC 12	20G.3.1	P 231	L 25	# 83
Ghiasi, Ali	Ghiasi Quantu	ım/Inphi		Ghiasi, Ali			Ghiasi Quantu	ım/Inphi	
Comment Type TR	Comment Status X			Comment	Туре	TR (Comment Status X		
Eye height need to be	adjusted to account for the 50) mUI rectangul	ar window	At TP1	a it is no	possible to	o get 7.5 ps, please put so	mething reasor	nable
SuggestedRemedy				Suggested	Remedy				
See ghiasi_3ck_01_0 ⁻ Proposed Response	121 and reduce eye height wir Response Status O	dow from 15 m	V to 9.5 mV				tput rise time when passe % rise time. I suggest 12		
				Proposed I	Respons	e R	Response Status O		
C/ 120G SC 120G.3.1	I P 231	L 19	# 81	0/ 4000	00.44		D000		
Ghiasi, Ali	Ghiasi Quantu	ım/Inphi		C/ 120G	SC 12	20G.3.1.5	P 233	L 17	# 84
Comment Type TR		Ghiasi, Ali			Ghiasi Quantu	ım/Inphi			
	ted to account for the 50 mUI	dow	Comment Addres		TR (TBD in the	Comment Status X paragraph			
SuggestedRemedy	121 and reduce eye height wir	dow from 7 E d		Suggested	Remedy				
Proposed Response	Response Status O	L 23	# 82	loss pr mV an signal	oduces 1 d with an will have	12 ps 20-80 nplitude of 8 pre-empha	tput rise time when passe % rise time. I suggest 24 800 mV, the reason ampli isis on for this measureme ve that is reasonable.	ps for the slew tude is reduced	from -400 mV to + 400 is due assumption that
Ghiasi, Ali	Ghiasi Quantu		# 0Z	Proposed I	Respons	e R	Response Status O		
Comment Type TR	Comment Status X			,	•				
Example TP0V should				C/ 120G	SC 11	20G.3.1	P 231	L 25	# 85
SuggestedRemedy				Ghiasi, Ali	00 1	200.0.1	Ghiasi Quantu		# 05
See ghiasi_3ck_02_0				Comment	Turno	т	Comment Status X	лп/птрп	
	structed from 2 mm section of					-	get 7.5 ps, please put son	nething reasons	able
	02.5 Ohms strip line, followed total loss of this model at 26.5						get 7.5 ps, please put sol	nething reasons	IDIE
per table 93-12. The	equation for the loss =0.006+0			Suggested	-			a thursen a second	te di la candi utita ituat 5 dD
GHz. Proposed Response	Response Status O			loss pr	oduces 1	l2 ps 20-80	tput rise time when passe % rise time, given that rea easonable rise time.		
				Proposed I	Respons	e R	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

	P 162	L 38	# 92	C/ 162 SC 162.11.7.2	P 171	L 1	# 95
Haser, Alex	Molex			Haser, Alex	Molex		
Comment Type E Cor	mment Status X			Comment Type E Co	mment Status X		
"Cable assembly supports a around a 1.75 m cable	achievable cable leng	h of at least 2 m'	'; spec is written	"The crosstalk paths for each number of crosstalk paths, no			le specifies the
SuggestedRemedy				SuggestedRemedy			
Change text to "achievable	cable length of at leas	st 1.75 m"		Change text to "The number	of crosstalk paths of e	ach MDI…"	
Proposed Response Resp	ponse Status O			Proposed Response Res	sponse Status O		
C/ 162 SC 162.11	P 162	L 40	# 93	C/ 162B SC 162B.1	P 259	L 20	# 96
Haser, Alex	Molex			Haser, Alex	Molex		
Comment Type E Cor "Cable assembly supports a around a 1.75 m cable	<i>mment Status</i> X achievable cable lengt	h of at least 2 m'	'; spec is written	Comment Type T Co The reference MTF IL at 26.5 SuggestedRemedy	<i>mment Status</i> X 56 GHz is 6.66 dB		
SuggestedRemedy				Change text from 6.6 dB to 6	.7 dB to capture round	ling correctly	
Change text to "achievable	cable length of at leas	st 1.75 m"			sponse Status O	0 1	
Proposed Response Resp	ponse Status O			, , ,	,,		
C/ 162 SC 162.11	P 163	L 18	# 94	C/ 162B SC 162B.1.3.1	P 262	L 36	# 97
	100	- 10	" 54	Haser, Alex	Molex		
	Molex						
Haser, Alex Comment Type TR Cor	Molex mment Status X			Comment Type TR Co Fill in TBD for MTF FOM_ILD	o <i>mment Status</i> X) limit		
Haser, Alex Comment Type TR Cor Fill in TBD for CA ERL limit				51			
Haser, Alex Comment Type TR Con Fill in TBD for CA ERL limit SuggestedRemedy	mment Status X	02 1020 ndf elid	e 6	Fill in TBD for MTF FOM_ILD) limit	udhoc_01c_06242	20.pdf slide 7
Haser, Alex Comment Type TR Con Fill in TBD for CA ERL limit SuggestedRemedy Replace TBD with 7.4 dB bas	mment Status X	.02_1020.pdf slid	e 6	Fill in TBD for MTF FOM_ILD SuggestedRemedy Fill in a value of 0.18 dBrms b) limit	adhoc_01c_06242	20.pdf slide 7
laser, Alex Comment Type TR Cor Fill in TBD for CA ERL limit SuggestedRemedy Replace TBD with 7.4 dB bas	mment Status X	_02_1020.pdf slid	e 6	Fill in TBD for MTF FOM_ILD SuggestedRemedy Fill in a value of 0.18 dBrms b) limit based on haser_3ck_a	udhoc_01c_06242	20.pdf slide 7
laser, Alex Comment Type TR Cor Fill in TBD for CA ERL limit SuggestedRemedy Replace TBD with 7.4 dB bas	mment Status X	.02_1020.pdf slid	e 6	Fill in TBD for MTF FOM_ILD SuggestedRemedy Fill in a value of 0.18 dBrms b) limit based on haser_3ck_a	udhoc_01c_06242	20.pdf slide 7 # 98
Haser, Alex Comment Type TR Cor Fill in TBD for CA ERL limit SuggestedRemedy Replace TBD with 7.4 dB bas	mment Status X	.02_1020.pdf slid	e 6	Fill in TBD for MTF FOM_ILD SuggestedRemedy Fill in a value of 0.18 dBrms h Proposed Response Res) limit based on haser_3ck_a sponse Status O		
Haser, Alex Comment Type TR Con Fill in TBD for CA ERL limit SuggestedRemedy Replace TBD with 7.4 dB bas	mment Status X	.02_1020.pdf slid	e 6	Fill in TBD for MTF FOM_ILD SuggestedRemedy Fill in a value of 0.18 dBrms to Proposed Response Res Cl 162B SC 162B.1.3.2 Haser, Alex) limit based on haser_3ck_a sponse Status O P 262		
Haser, Alex Comment Type TR Con Fill in TBD for CA ERL limit SuggestedRemedy Replace TBD with 7.4 dB bas	mment Status X	.02_1020.pdf slid	e 6	Fill in TBD for MTF FOM_ILD SuggestedRemedy Fill in a value of 0.18 dBrms H Proposed Response Res Cl 162B SC 162B.1.3.2 Haser, Alex Comment Type TR Co	D limit based on haser_3ck_a sponse Status O P 262 Molex omment Status X	L 43	# <u>98</u>

/ 162B SC 162B.1	.3.2 <i>P</i> 263	L 16	# 99	C/ 162	SC 162.11.	6	P 166	L 37	# 102
aser, Alex	Molex			Champion,	Bruce		TE Connectiv	rity	
omment Type ER	Comment Status X			Comment 7	<i>уре</i> т	Comment S	Status X		
	neter tables throughout the spe ould add one here too, especia ERL calculations				s a disrepancy bly CM-to-CM		s specifed for	the MTF CM-to-0	CM RL and the cable
uggestedRemedy	62B-1 containing the following	a text: "The speci	fied T fy value	used in					close to this limit are RL will fail the -2 dB
represents a propaga	ation delay of zero which captu	res to electrical of	characteristics of the	limit. Suggestedl	Domody				
entire test fixture, inc entirety."	luding the test connector and t	est fixture transn	nission line in its	•••	•	use the followin	a equation to t	taka inta account	t the worst case MTF
roposed Response	Response Status 0			design.			g equation to t		
				Return	Loss(f) ≥ 1.8 f	for 0.05 ≤ f ≤ 40			
/ 162B SC 162B.1		L 36	# 100			_			
aser, Alex	Molex			Proposed F	Response	Response S	Status O		
omment Type ER	Comment Status X								
CMDRL(f) is defined	as common-mode return loss;	this is incorrect		C/ 162	SC 162.11		P 163	L 18	# 103
uggestedRemedy				Champion,	Bruce		TE Connectiv		
Define CMDRL(f) as	common-mode to differential r	node return loss		Comment 7		Comment S		ity	
roposed Response	Response Status O				51	listed as TBD ir		6	
				Suggestedl	Remedy				
/ 162 SC 162.11.	4 P 165	L 8	# 101	TBD to	be changed to	o 7.4 dB. See cl	hampion_3ck_	02_1020.pdf	
nampion, Bruce	TE Connectiv	vity		Proposed F	Response	Response S	Status O		
omment Type T	Comment Status X								
	to-Common Mode Return loss requencies. Failures are occu			C/ 162B	SC 162B.1.	.3.1	P 262	L 36	# 104
	e assemblies. A slight relaxat			Champion,			TE Connectiv		
for this.	č		-	Comment 7		Comment S			
lggestedRemedy					LD is listed at				
It is recommended to	use the following equation for	this limit:		_					
Poturn Loce(f) > 22 f	$0(f/26.56)$ for $0.05 \le f < 26.56$			Suggested	•	- 0.40 dD			
	$7(f/26.56)$ for $26.56 \le f \le 40$ G	Hz			be changed to				
Return Loss(f) \ge 19 - See presentation	(,			Proposed F	Response	Response S	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/ 162B SC 162B.1.3.2	^D 262	L 43	# 105	C/ 120F S	C 120F.3.1.2	P 21	4 <i>L</i> 34	# 108
	Connectivity	L 7J	т 10 5	Hidaka, Yasuo	· 1201.3.1.2		Semiconductor, Inc.	# [100
Comment Type T Comment Stat	-			Comment Type	TR	Comment Status		
MTF ERL is listed at TBD in draft								removed long time ago.
SuggestedRemedy				SuggestedRem				0 0
TBD to be chaned to 9 dB. See diminico	_3ck_03a_10	20.pdf		•••	•	the pre-cursor tap c	:(-3).	
Proposed Response Response Statu	ıs O			Proposed Resp	oonse	Response Status	0	
	^D 262	L 43	# 106					
DiMinico, Christopher MC	Communicat	ions						
Comment Type TR Comment Stat	us X							
Provide value for mated test fixture ERL	TBD.							
SuggestedRemedy								
The mated test fixture ERL shall be great Update PICS.	ter than or equ	al to 9 dB.						
See diminico_3ck_adhoc_01a_121620 s	lide 6.							
Proposed Response Response Statu	us O							
C/ 162B SC 162B.1.3.1	⊃262	L 36	# 107					
DiMinico, Christopher MC	Communicat	ions						
Comment Type TR Comment Stat Provide value for mated test fixture FOM								
SuggestedRemedy								
See diminico_3ck_adhoc_01a_121620 Update PICS								

Proposed Response Response Status **0**

C/ 162	SC 162.9.3.4	P 156	L 46	# 109	C/ 162	SC 162.9.3.4	4	P 156	L 46	# 110
lidaka, Y	asuo	Credo Semico	onductor, Inc.		Hidaka, Ya	asuo		Credo Semic	onductor, Inc.	
Comment	Type T Cor	mment Status X			Comment	Туре Т	Comme	nt Status X		
	ail definition of PRBS9Q mentation errors.	with the entire seque	nce is recommen	ded to avoid		il definition of tw n-odd jitter meas		in PRBS9Q is red	commended to im	prove reproducibility
uggeste	dRemedy				Suggestee	lRemedy				
Define templ	e PRBS9Q as a new cla ate.	use in clause 120.5.1	1.2 using clause 1	120.5.11.2.1 as a				symbols used fo values as follows		neasurements" simila
Modif	y the second paragraph	of 120.5.11.2.1 as foll	ows:			Description : Gr Reference :		AM4 symbol : firs : 1 :-	t:TR begins:TR :- :5	ends : last
	the PRBS9Q test patte					0 to 3 rise : 10		: 260 : 263	: 264 : 266	
	it is enabled. The PRBS					3 to 0 fall : 233		:511 :5	:6 :8	
	ay coding pairs of bits fr					1 to 2 rise : 3	-	: 265 : 268	: 269 : 270	
	scribed in 120.5.7. The l					2 to 1 fall : 12	-	: 466 : 469	: 470 : 471	
	mentation shown in Figu Jation (YY–Y). Since the				-	0 to 1 rise : 20 1 t0 0 fall : 211		:195 :198 :256 :260	:199 :200 :261 :264	
	apped as the first bit of					2 to 3 rise : 32		: 210 : 213	: 214 : 216	
	apped as the second bit				-	3 to 2 fall : 03		: 401 : 404	: 405 : 406	
	ence, and bits which are				-	0 to 2 rise : 20		: 275 : 278	: 279 : 280	
	st bit of the following syr				-	2 to 0 fall : 122		: 321 : 325	: 326 : 328	
	ple, if the PRBS9 genera				-	1 to 3 rise : 0'		: 166 : 169	: 170 : 172	
	value of 1111111111 (wit				-	3 to 1 fall : 03		: 107 : 110	: 111 : 112	
	ence is the following Gra									
	32230323131001033121				Add a	n exception to us	se the new t	able instead of Ta	able 120D-4. wher	n PRBS9Q is used a
10030	02003120333200212331	132310110033210222	13103113222031	1333131300	the te	st pattern for eve	en-odd jitter	measurement.		
02013	31101331122210113023	332032022012212100	13321323200113	3322333330		' Response	•			
01103	33220323230012023310	022112110103013120	03221320210023	3220022223	Fioposed	response	Respons	e Status O		
0022	2201120203003110232	210123122021303331	01201321112010	0201010000						
	13010231111301322102									
)3302103222330320121				C/ 162B	SC 162B.1.3	3	P 262	L 36	# 111
03311	1231121200023121031	123323330310020230	11232131330121	123012222.	Kocsis Sa	m		Amphenol		

Draw Figure XX-X "PRBS9 pattern generator" similar to Figure 94-6 but according to polynomial $1 + x^5 + x^9$.

Define Equation (YY-Y) as $G(x) = 1 + x^5 + x^9$ or make a reference to the polynomial in Table 68-6.

Make a reference to the new clause from 162.9.3.4.

Proposed Response Response Status **O**

Kocsis, Sam Amphenol Comment Type TR Comment Status X MTF FOM_ILD requirement is TBD SuggestedRemedy

Replace TBD with 0.18dB

Proposed Response Response Status **0**

C/ 162B SC 162B.1.3	3.2 P 262	L 43	# 112	C/ 162	SC 162.11.7	P 167	L 21	# 115
Kocsis, Sam	Amphenol			Li, Mike		Intel		
Comment Type TR	Comment Status X			Comment	Type TR	Comment Status X		
MTF ERL requirement	is TBD (also in PICS TF2)					ld be improved to provide the		
SuggestedRemedy						ne latest package technology provement would be aligned		
Replace TBD with 10c	IB				· ·	e ecosystem at large.		
Proposed Response	Response Status 0			Suggested	dRemedy			
				chang	e Cp to 6.0x1e-5	nF		
C/ 162 SC 162.11	P 163	L 17	# 113	Proposed	Response	Response Status 0		
Kocsis, Sam	Amphenol	- 17						
Comment Type TR	Comment Status X			C/ 163	SC 163.10.1	P 190	L 46	# 116
CA ERL requirement i	s TBD			Li, Mike		Intel		
SuggestedRemedy				Comment	Type TR	Comment Status X		
Replace TBD with 9dE	3					ld be improved to provide the	e needed channe	I/link solution margir
Proposed Response	Response Status O					ne latest package technology provement would be aligned		
						e ecosystem at large.	with the latest CE	I-112G-LR-PAIVI4
				Suggested	Remedy			
C/ 162B SC 162B.1.3		L 34	# 114	chang	e Cp to 6.0x1e-5	nF		
Kocsis, Sam	Amphenol			Proposed	Response	Response Status O		
Comment Type TR	Comment Status X		the second second					
	RL mask does not provide use	ful information to	o the reader	C/ 120F	SC 120F.4.1	P 220	1.00	# 447
SuggestedRemedy Remove the mask fror	n the spec			-	3C 120F.4.1	-	L 29	# 117
	•			Li, Mike	T			
Proposed Response	Response Status O			Comment		Comment Status X Id be improved to provide the	a needed abanne	llink colution morain
						ne latest package technology		
				Moreo	ver, such an imp	provement would be aligned		
				Suggested	dRemedy			
				change	e Cp to 6.0x1e-5	nF		
				Proposed	Response	Response Status O		

C/ 162 SC 162.9.3	P 152	L 30	# 118	C/ 162	SC 162.11	P 163	L 17	# 120
Ran, Adee	Intel			Ran, Adee	e	Intel		
Comment Type TR	Comment Status X			Comment	Type TR	Comment Status X		
(addressing TBD) Tx CM to differential re	eturn loss refers to 92.8.3.3 wi	th equation TBD).		essing TBD) ium cable assen	nbly ERL is TBD.		
	o of Tx and Rx have the same 8.4.3, respectively, which are i			enable	e measurement	am suggesting setting the mi of the internal host circuitry. In the exceed 10.3 dB.		
completeness, it is sug	pecifications may need more ogested to use the same equate measurement involves mate	ation used for the	e cable assembly,		be assumed tha vill be closer to t	at the cable has more uniform hat of a MTF.	impedance than	the host board, so its
comparable.				The s	uggested value	allows 1.3 dB difference for c	able assembly in	plementation.
SuggestedRemedy				Suggestee	dRemedy			
Add a subclause for T	x differential to common mode	e return loss, wit	h equation identical to	Chang	ge TBD to 9 dB.			

Add a subclause for Tx differential to common mode return loss, with equation identical to equation (162–9), or point to (162–9).

Proposed Response Response Status O

C/ 162	SC 162.9.4	P 158	L 16	# 119
Ran, Adee	•	Intel		

Comment Type TR Comment Status X

(addressing TBD)

 Rx differential to common-mode (conversion) input return loss refers to 92.8.4.3 with value TBD.

In clause 92 the RLCD of Tx and Rx have the same specifications - eq (92-2) in 92.8.3.3 and eq (92-21) in 92.8.4.3, respectively, which are identical; and there is no RLCD for cable assembly.

The conversion loss specifications may need more work, but for the purpose of technical completeness, it is suggested to use the same equation used for the cable assembly, since in both cases the measurement involves mated connectors and results should be comparable.

As an alternative consider removing this specification (the Rx owns its performance).

SuggestedRemedy

Add a subclause for Rx differential to common mode return loss, with equation identical to equation (162–9), or point to (162–9).

Proposed Response Response Status O

Ran, Adee Intel
Comment Type TR Comment Status X

P 187

L 41

121

Response Status **O**

(addressing TBD)

SC 163.9.3

Proposed Response

C/ 163

Rx Differential to common-mode (conversion) input return loss refers to 93.8.1.4 with value TBD. This subclause uses equation (93-5) to define the limit.

The conversion loss specifications may need more work, but for the purpose of technical completeness, it is suggested to use a piecewise-linear equation similar to (93-5). Boundary lines are suggested to match the ones used in OIF CEI-112G-LR for the 53.125 GHz signaling frequency.

As an alternative consider removing this specification (the Rx owns its performance).

SuggestedRemedy

Add a new subclause for Rx differential to common mode return loss with the equation:

 $\begin{aligned} RLdc(f) &\geq 25 \cdot 20^* (f/fb) \text{ for } 0.05 \leq f \leq fb/2 \\ RLdc(f) &\geq 15 \text{ for } fb/2 < f \leq 40 \\ \text{where } f \text{ is the frequency in GHz and } fb=53.125. \end{aligned}$

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

Cl 163 SC 163.10.4 P 192 L 44 # 122	Cl 120G SC 120G.3.1.5 P 233 L 17 # 124
Ran, Adee Intel	Ran, Adee Intel
Comment Type TR Comment Status X	Comment Type TR Comment Status X
(addressing TBD) For the KR PHY, the channel "differential to common-mode conversion loss of TP0 and TP5" is TBD.	"The crosstalk generator is calibrated at TP4 (without the use of a reference receiver) v target differential peak-to-peak amplitude of TBD mV and slew time of TBD ps between –TBD V and +TBD V"
For the CR PHY this parameter is specified in 162.11.5 as "The difference between the cable assembly differential to common-mode conversion loss and the cable assembly insertion loss" with equation (162-10).	This is the host output test; the crosstalk generator represents the module output. We specify the PtP amplitude and transition time for modules at TP4 in Table 120G–3. The calibration should use the maximum amplitude and minimum transition time values from that table.
For the purpose of technical completeness, a similar equation can be used for KR.	SuggestedRemedy
SuggestedRemedy Rewrite this subclause based on 162.11.5, substituting "TP0 to TP5 channel" for "cable	Change the quoted sentence to:
assembly" with editorial license. Proposed Response Response Status O	 "The crosstalk generator is calibrated at TP4 (without the use of a reference receiver) we targets equal to the Differential peak-to-peak output voltage (max) and Transition time (min, 20% to 80%) in Table 120G-3". Proposed Response Response Status O
2 120F SC 120F 4.3 P 223 / 5 # 123	
Ran, Adee Intel	C/ 120G SC 120G.3.2 P 234 L 17 # 125
Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD)	Ran, Adee Intel
Ran, Adee Intel	Ran, Adee Intel Comment Type TR Comment Status X
Ran, Adee Intel Comment Type TR Comment Status (addressing TBD) (addressing TBD) Channel ERL minimum is TBD. The ERL parameters specific to C2C take into account the difference in reference receiver. With the respective parameters, ERL (which is the relative effect of reflections vs. signal)	Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) Module output ERL (min) is TBD
Ran, Adee Intel Comment Type TR Comment Status (addressing TBD) Channel ERL minimum is TBD. The ERL parameters specific to C2C take into account the difference in reference receiver. With the respective parameters, ERL (which is the relative effect of reflections vs. signal) should have the same limit.	Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) (addressing TBD) Module output ERL (min) is TBD Since it is measured at TP4 the module ERL will be no better than that of a mated test
tan, Adee Intel Comment Type TR Comment Status X (addressing TBD) (addressing TBD) Channel ERL minimum is TBD. The ERL parameters specific to C2C take into account the difference in reference receiver. With the respective parameters, ERL (which is the relative effect of reflections vs. signal) should have the same limit. SuggestedRemedy	Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) Module output ERL (min) is TBD
Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) (addressing TBD) Channel ERL minimum is TBD. The ERL parameters specific to C2C take into account the difference in reference receiver. With the respective parameters, ERL (which is the relative effect of reflections vs. signal) should have the same limit. SuggestedRemedy Set channel ERL minimum identical to 163.10.3 where the minimum is 9.7 dB.	Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) Module output ERL (min) is TBD Since it is measured at TP4 the module ERL will be no better than that of a mated test fixture. In another comment I am suggesting setting the minimum ERL of a MTF to 10.
Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) (addressing TBD) Channel ERL minimum is TBD. The ERL parameters specific to C2C take into account the difference in reference receiver. With the respective parameters, ERL (which is the relative effect of reflections vs. signal) should have the same limit. SuggestedRemedy	Ran, Adee Intel Comment Type TR Comment Status X (addressing TBD) Module output ERL (min) is TBD Since it is measured at TP4 the module ERL will be no better than that of a mated test fixture. In another comment I am suggesting setting the minimum ERL of a MTF to 10. to enable measurement of the internal host circuitry. Based on this proposal, the ERL of the end of the internal host circuitry.

SuggestedRemedy

Change TBD to 9 dB for Tx ERL and 8.5 dB for Rx ERL.

Proposed Response Response Status **O**

	SC 120G.3.2	P 234	L 30	# 126	C/ 120G	30 12	0G.3.3.2.1	P 238	L 54	# 128
Ran, Adee		Intel			Ran, Adee			Intel		
Comment T	Type ER	Comment Status X			Comment 7	уре 1	R Com	ment Status X		
Editor's been co	s note indicates t	e requiring confirmation) hat AC common-mode spec e existing limit of 17.5 mV RN value.			"The co asynch	ronous w	pagating cross			stressed signal are ntial and 20% to 80%
of com phases	mon mode signa of P802.3ck.	e the measurement method I and fine-tuned specification e progressing to WGB with t	n, but it will likely	y continue into later	host's o maxim then it	own trans um amplit may bene	mitter. For calil ude and minim		can assume that If the host does n	t the host uses the
Suggestedl Delete Proposed F	the editor's note	Response Status 0				ion shoul				n Table 120G–1. The
,	,				Suggested	Remedy				
					Change	e the quo	ed sentence to):		
Cl 120G Ran, Adee Comment 7	SC 120G.3.2. Type TR ssing TBD)	2 P 235 Intel Comment Status X	L 34	# 127	signal a equal to	and are ca the Diffe	alibrated at TP	talk signals are asyn a (without the use o -peak output voltage	of a reference rec	
"The cr	rosstalk génerato	r is calibrated at TP1a (with co-peak amplitude of TBD m			Proposed F	Response	Resp	onse Status O		
specify	the PtP amplitude tion should use the	ut test; the crosstalk generat de and transition time for hos ne maximum amplitude and	sts at TP1a in T	able 120G-1. The						
Suggestedl	Remedy									
Change	e the quoted sen	tence to:								
		r is calibrated at TP1a (with erential peak-to-peak output								
	0% to 80%) in Ta	able 120G-1".								

C/ 120G SC 120G.3.4.	1.1 P 242	L 2	# 129	C/ 162B SC 162B.1.3	3.2 P 262	L 43	# 131
Ran, Adee	Intel			Ran, Adee	Intel	•	
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
(addressing TBD)				(addressing TBD)			

"The counter propagating crosstalk signals during calibration of the stressed signal are asynchronous with target amplitude of TBD mV peak-to-peak differential and target slew time between -TBD mV and TBD mV of TBD ps as measured at TP4"

This is the module stressed input test; the actual counter-propagating signals are from the module's own transmitter. For calibration purposes we can assume that the module uses the maximum amplitude and minimum transition time. If the module does not reach the limits, then it may benefit from less crosstalk during the actual test - but as long as it meets the module output specifications, it is acceptable.

We specify the PtP amplitude and transition time for modules at TP4 in Table 120G-3. The calibration should use the maximum amplitude and minimum transition time values from that table.

SuggestedRemedy

Change the quoted sentence to:

"The counter-propagating crosstalk signals are asynchronous with respect to the input signal and are calibrated at TP4 (without the use of a reference receiver) with targets equal to the Differential peak-to-peak output voltage (max) and Transition time (min, 20% to 80%) in Table 120G-3".

Proposed Response Response Status 0

C/ 162B SC 162B.1.3.1 P 262 L 36 Intel Ran. Adee Comment Type TR Comment Status X (addressing TBD) "FOMILD shall be less than (TBD) dB"

The importance of this parameter for quality of test fixtures in the context of this project has not been presented. ERL likely covers what FOMILD originally intended to cover.

The specification should be deleted without loss of technical completeness.

SuggestedRemedy

Delete the guoted sentence.

Proposed Response Response Status O

	00	020.1.3.2	1 2	02	L 43	π	131	
Ran, Adee			Intel					
Comment Ty	pe	TR	Comment Status	Х				
(addrood	ing TI	וחכ						

"The mated test fixture ERL shall be greater than or equal to TBD dB"

We have adopted a minimum of 7.3 dB for a host ERL in Table 162–10 (with parameters in 162.9.3.5). The parameters for MTF are the same, except that "Time-gated propagation delay" is 0 instead of 0.2 ns.

The value 0 was accepted explicitly (comment #122 against D1.3) but the difference does not seem to be justified, since the MTF includes the test fixture used for host ERL measurement (where the connector is time gated). Different time gating creates difference in the meaning of ERL.

The ERL from a high-quality MTF is the upper bound for any measurement of a DUT which uses any one of the test fixtures. Therefore, it should be significantly higher than 7.3 dB.

It is suggested to divide the budget evenly to allow about the same reflection power from the DUT's internal circuitry as from the mated connectors; if each one is 10.3 dB then their combination (RSS, since reflections are independently distributed) would be 7.3 dB.

SuggestedRemedy

Change minimum ERL from TBD to 10.3 dB.

In Table 162B–1, change T fx from 0 to 0.2 ns. 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

130

C/ 163B SC 163B.	P 290	L 16	# 132	C/ 120F	SC	120F.3.1.2	P 214	L 34	# 134
Ran, Adee	Intel			Ran, Adee			Intel		
Comment Type TR	Comment Status X			Comment T	ype	ER	Comment Status X		
	ture is defined only by the mag ader to calculate reference val			c(–3) wi	ill be i s not	removed fro	that pre-cursor tap om this specification if it is sh n in four comment cycles sin		
The lack of full chan replace the TBDs in	nel information also prevents ca Table 163B–1.	alculation of cons	ensus values to	SuggestedF Delete t		dy litor's note.			
equations in 162.11	place the definition to a full s-pa 7.1.1 with the same z_p, creation of the reference values.			Proposed R	espo	nse	Response Status O		
Alternatively, use a	smaller value for z_p to create a	an IL of 2.8 dB.		C/ 120F	SC	120F.3.2.3	P 218	L 43	# 135
SuggestedRemedy				Ran, Adee			Intel		
and update the refer	his paragraph with text referring ence values (currently TBD) ac a more detailed proposal is plar <i>Response Status</i> O	cordingly.	and equation 162-12	The edi	sing tor's r	note states	Comment Status X e requiring confirmation) that the values specified for These values are for the high	"Insertion loss a n-loss test).	at 26.5625 GHz" for te:
							ade to change the values in note, so there is no need to		ur comment cycles
C/ 163 SC 163.9.		L 28	# 133			baseline p	oposal /3/ck/public/19_09/li_3ck_01	d 0010 ndf bag	s a comment in slide 10
Ran, Adee Comment Type E	Intel Comment Status X			that "Ma	ax info	ormative red	commended loss value is pla	ace holder and	require further
The editor's note sta reference is not app referring to the frequ	tes that "In Table 163–5, comm ropriate". But it is appropriate; c ency range of the test fixture's	comment #228 ag specification and	gainst D1.3 was	normati informa	ve los tive re	s of the inte	alue in this table is not the in erference tolerance test. The ed loss value", so there is no	e annex does no thing to confirm	ot include a "max n/investigate.
6	ence (the problem is in the resp	onse).					est suggests the maximum lo less of the value.	oss for a chann	el, but the project's
SuggestedRemedy Delete the editor's n	ote, without any change to the t	able		, SuggestedF		•			
Proposed Response	Response Status 0					litor's note.			
ioposou nosponse	Nesponse Status U			Proposed R			Response Status O		

V 120F SC 120F.3	.2.3 P 218	L 16	# 136	C/ 120G	SC 1	20G.3.3	P 237	L 37	# 138
an, Adee	Intel			Ran, Adee			Intel		
Comment Type T	Comment Status X			Comment 7	Гуре	т	Comment Status X		
other corresponding	w pass response with 53 GHz 3 places in this draft. the pattern generator in the C			module	e input (1	120G.3.4,	G.3.2, table 120G-3), host in table 120G-9), the reference nin)" is incorrect - 120G.3.1.	e subclause for	"Common-mode to
higher bandwidth in t for Rx	his specific subclause. All prec			There is output.		ubclause	that discusses RLCD, 120G	.3.1.1, but it is c	currently specific to he
	.g. 33 GHz in 120D.3.2.1).			Suggested	Remedy	/			
SuggestedRemedy Change "53" to "40".				Change	e referer	nce from	120G.3.1.2 to 120G.3.1.1 in	the 3 tables.	
Proposed Response	Response Status O			Rephra Proposed F			G.3.1.1 to refer to both host Response Status O	and module, or	utput and input.
C/ 163 SC 163.10	.1 <i>P</i> 190	L 26	# 137	C/ 163	SC 1	62 10	P 190	L 28	# 139
an, Adee	Intel				30 1	63.10		L 28	# 139
omment Type E	Comment Status X			Ran, Adee			Intel		
	ed "Channel Operating margin' its and ERL requirements.	" so it should only	discuss COM, not	Comment 7 There i		T ecification	Comment Status X for RLDC for the KR chann	el.	
There are additional	requirements not listed here (e	e.g. mode convers	ion loss, 163.10.4)				on, a channel can cause a s		
uggestedRemedy							x - and since Tx RLCD/RLC can be reflected back with		ed either, a differentia
	ragraph (which points to 163.10	0.2 and 163.10.3)	to the parent			ao orginal			
subclause 163.10.							cifications may need more w nel RLDC from 162.11.4 car		purpose of technical
Consider adding a su	ummary table in 163.10 as in th	ne Tx and Rx chai	acteristics.						
roposed Response	Response Status O			Also in	missing	j120F.			
				Suggested	,				
							r channel differential to com limits, with editorial license.	mon mode retur	n loss, based on
				Apply s	similarly	in 120F.			

C/ 162	SC 162.9.3	P 152	L 35	# 140	C/ 162	SC 162.9.3.3	P 156	L 31	# 142	
Dawe, Pie	ers	Nvidia			Dawe, Pie	rs	Nvidia			
Comment	t Type TR	Comment Status X			Comment	Туре Т	Comment Status X			
		ximum insertion loss allocation		•	The tr	ansmitter SNDR r	neasurement uses the meth	od described in		
insert switcl asym happe	tion loss up to 11. h, while 6.875 dB metric loss budge en anyway. By th	ector footprint, of 6.875 dB, of 9 dB, making passive copper is overkill for a NIC. Server- et, so it would be better for the e way, many server-switch c and switch ends), and that's a	r expensive and un switch links will ge e standard to regul ables will be asymi	nattractive for a t made with an larise what will metric too (different			fined by the [measurement] Response Status O	method {of des	scribed in}	
Suggeste	dRemedy				C/ 162	SC 162.9.3.6	P 157	L 30	# 143	
		2M, create two kinds of CR p connect to short or long; long			Dawe, Pie		Nvidia	200	" 140	
in Cla	ause 73 Auto-Neg	otiation to advertise short an	d long to the other	end.	Comment	Type TR	Comment Status X			
In Ta	ble 162-14, provid	le separate limits for Linear fille le separate rows for Test cha	annel insertion loss	s: for testing the short			ns that the minimum commo ections of signals that were g			

host input the values for Test 2 are 10-6.875 = 3.125 dB higher (26.75 dB and 27.75 dB), while for the long host input the values for Test 2 are 6.875-3.75 = 3.125 dB lower (20.5 dB and 21.5 dB). No change needed for Test 1.

In 162A.4, provide two equations for IL_PCBmax and for ILHostMax and show them in Fig 162A-1 and 2. Provide two Value columns in Table 162A-1. Adjust figures 162-3 and 4.

In 162.11.7.1.1, zp, representing the extra loss a host has above an MCB, could be made asymmetric but I believe that would not bring an improvement in accuracy.

There could be a third kind of CR port with 6.875 dB but this would be useful for only a subset of switch-switch links, for which passive copper is a subset anyway, so it doesn't seem worthwhile.

Proposed Response Response Status O

C/ 162	SC 162.9.3	P 152	L 35	# 141
Dawe, Pie	rs	Nvidia		
Comment	Type E	Comment Status X		
Clums	sy "x vf" way of de	fining linear fit pulse peak (m	nin)	
Suggested	dRemedy			
	Linear fit pulse pe les to V/V.	ak ratio" as in 163 and 163A	.3.2.1. Note the	e unit in the table

Proposed Response Response Status O

specified to reduce reflections of signals that were generated originally as differential and end up as differential. This is not the case: it is included to contain a gross build-up of CM voltage on the line that is otherwise unbounded. If it were intended to address mixed-mode issues it would be a tighter spec, but that's not viable for front-panel connectors. Other specs such as Rx Differential to common-mode return loss and Tx Common-mode to differential mode return loss address the problem stated.

2. This is a standard, not an attempt at a textbook. We don't give any justifications for most other specs; there is no reason that this one should be different.

SuggestedRemedy

Delete the paragraph	۱	aragraph	para	the	lete	De
----------------------	---	----------	------	-----	------	----

Proposed Response Response Status **O**

C/ 163	SC 163.10.2	P 192	L 28	# 144
Dawe, Piers		Nvidia		
Comment Ty	pe T	Comment Status X		

The limit at 40 GHz (not 45 as in the figure) excludes some acceptable channels.

SuggestedRemedy

Replace the straight part of the limit with one that curves down. (with an f^2 term). Correct the fmax in Figure 163-5.

Proposed Response Response Status **O**

CI 120G SC 120G.3.2	2 P 234	L 10	# 145	C/ 120G	SC 120G.3.2.	1 P:	234	L 38	# 148
Dawe, Piers	Nvidia			Dawe, Piers		Nvid	а		
Comment Type TR	Comment Status X			Comment Typ	be T	Comment Status	Х		
	n module (or test equipment in essively reduced to deliver only			(emphasi		it is being asked to have to adjust its so ne.			
SuggestedRemedy				SuggestedRe	medy				
Eye height limits shou same. Change the NEEH fro Proposed Response	lld be set sensibly for short and m 24 mV to 40 mV. Response Status 0	d long modes, ne	ear and far - not all the	long." Ch	nange subclau	se title from "Modul	e output trans	mit equalize	des, called short and er control" to "Module g" to "Module output
-Toposed Response	Response Status 0			Proposed Res	sponse	Response Status	ο		
C/ 120G SC 120G.3.2	2 P 234	L 26	# 146	C/ 120G	SC 120G.3.2.	4	234	L 41	# [440
Dawe, Piers	Nvidia				3C 1 20G.3.2 .			L 41	# 149
Comment Type TR	Comment Status X			Dawe, Piers		Nvid	а		
work. If the module is	set to the short setting, and th	ne host receiver i		The modu	ule output is n	ot tx_anything, it's p	art of the rece	eive path.	
work. If the module is it is offered is smaller is set to the long settir guarantee that either s SuggestedRemedy There should be 4 EH	set to the short setting, and the than 24 mV because of loss, a ng and the host isn't that long, setting is usable. -VEC limit pairs: short near an	he host receiver i and out of tune as the eye is also o d far, and long n	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table	SuggestedRe	<i>medy</i> tx_eq_state" t	ot tx_anything, it's p o "module output m <i>Response Status</i>	ode".	eive path.	
work. If the module is it is offered is smaller is set to the long settir guarantee that either s SuggestedRemedy There should be 4 EH	e set to the short setting, and the than 24 mV because of loss, a ng and the host isn't that long, setting is usable. -VEC limit pairs: short near an 1, give the four zp values: for s	he host receiver i and out of tune as the eye is also o d far, and long n	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table	SuggestedRe Change " Proposed Res	<i>medy</i> tx_eq_state" t	o "module output m Response Status	ode".	bive path.	# 150
work. If the module is it is offered is smaller is set to the long settir guarantee that either s <i>SuggestedRemedy</i> There should be 4 EH 120G. In 120G.3.2.2. long, 61 and 244.7 (as	e set to the short setting, and the than 24 mV because of loss, a ng and the host isn't that long, setting is usable. -VEC limit pairs: short near an 1, give the four zp values: for s	he host receiver i and out of tune as the eye is also o d far, and long n	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table	SuggestedRe Change " Proposed Res	medy tx_eq_state" t sponse	o "module output m Response Status	ode". O 234		# 150
work. If the module is it is offered is smaller is set to the long settir guarantee that either s SuggestedRemedy There should be 4 EH 120G. In 120G.3.2.2.	e set to the short setting, and the than 24 mV because of loss, a ng and the host isn't that long, setting is usable. I-VEC limit pairs: short near an 1, give the four zp values: for s s at present).	he host receiver i and out of tune as the eye is also o d far, and long n	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table	SuggestedRe Change " Proposed Res Cl 120G	medy tx_eq_state" tr sponse SC 120G.3.2 .	o "module output m Response Status	ode". O 234 a		# [<u>150</u>
work. If the module is it is offered is smaller is set to the long settir guarantee that either s <i>SuggestedRemedy</i> There should be 4 EH 120G. In 120G.3.2.2. long, 61 and 244.7 (as <i>Proposed Response</i> <i>Cl</i> 120G <i>SC</i> 120G.3.2 Dawe, Piers	e set to the short setting, and the than 24 mV because of loss, a ang and the host isn't that long, setting is usable. -VEC limit pairs: short near an 1, give the four zp values: for s is at present). <i>Response Status</i> O 2.1 <i>P</i> 234 Nvidia	he host receiver i and out of tune as the eye is also o d far, and long n	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table	SuggestedRe Change " Proposed Res Cl 120G Dawe, Piers Comment Typ I wonder documen providing	medy tx_eq_state" to sponse SC 120G.3.2 . De T what "control v t and in this su	o "module output m <i>Response Status</i> 1 <i>P:</i> Nvid <i>Comment Status</i> variable" means, as ubclause it's "impler from S and L to 0 a	ode". O 234 a X I don't believe nentation dep	L 41 e it is used a endent". Al	# 150 anywhere else in this so I wonder whether should be left to CMIS
work. If the module is it is offered is smaller is set to the long settir guarantee that either s <i>SuggestedRemedy</i> There should be 4 EH 120G. In 120G.3.2.2. long, 61 and 244.7 (as <i>Proposed Response</i> <i>CI</i> 120G <i>SC</i> 120G.3.7 Dawe, Piers <i>Comment Type</i> T The module output do	 set to the short setting, and the than 24 mV because of loss, a and and the host isn't that long, setting is usable. -VEC limit pairs: short near an 1, give the four zp values: for s is at present). Response Status O 2.1 P 234 Nvidia Comment Status X vesn't have to "support" two thin 	he host receiver i and out of tune as the eye is also o d far, and long n short, 0 (as at pre	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table esent) and 184, for # 147	SuggestedRe Change " Proposed Res Cl 120G Dawe, Piers Comment Typ I wonder documen providing and the S SuggestedRe	medy tx_eq_state" to sponse SC 120G.3.2. De T what "control v t and in this su this mapping IFF committee medy	o "module output m <i>Response Status</i> 1 <i>P</i> : Nvid <i>Comment Status</i> variable" means, as ubclause it's "impler from S and L to 0 a s.	ode". O 234 a X I don't believe nentation dep nd 1 is helpful	L 41 e it is used a endent". Al - maybe it	anywhere else in this so I wonder whether should be left to CMI
work. If the module is it is offered is smaller is set to the long settir guarantee that either s <i>SuggestedRemedy</i> There should be 4 EH 120G. In 120G.3.2.2. long, 61 and 244.7 (as <i>Proposed Response</i> <i>Cl</i> 120G <i>SC</i> 120G.3.2 Dawe, Piers <i>Comment Type</i> T The module output do or similar), it has to ac	 set to the short setting, and the than 24 mV because of loss, a and and the host isn't that long, setting is usable. -VEC limit pairs: short near an 1, give the four zp values: for s is at present). Response Status O 2.1 P 234 Nvidia Comment Status X vesn't have to "support" two thin 	he host receiver i and out of tune as the eye is also o d far, and long n short, 0 (as at pre	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table esent) and 184, for # 147	SuggestedRe Change " Proposed Res Cl 120G Dawe, Piers Comment Typ I wonder documen providing and the S SuggestedRe Consider	medy tx_eq_state" to sponse SC 120G.3.2. De T what "control v t and in this su this mapping IFF committee medy telling the stor	o "module output m <i>Response Status</i> 1 <i>P</i> : Nvid <i>Comment Status</i> variable" means, as ubclause it's "impler from S and L to 0 a s.	ode". O 234 a X I don't believe nentation dep nd 1 is helpful	L 41 e it is used a endent". Al - maybe it	anywhere else in this so I wonder whether should be left to CMIS
work. If the module is it is offered is smaller is set to the long settir guarantee that either s <i>SuggestedRemedy</i> There should be 4 EH 120G. In 120G.3.2.2. long, 61 and 244.7 (as <i>Proposed Response</i> <i>Cl</i> 120G <i>SC</i> 120G.3.2 Dawe, Piers <i>Comment Type</i> T The module output do or similar), it has to ac <i>SuggestedRemedy</i>	 set to the short setting, and the than 24 mV because of loss, a and and the host isn't that long, setting is usable. -VEC limit pairs: short near an 1, give the four zp values: for s is at present). Response Status O 2.1 P 234 Nvidia Comment Status X vesn't have to "support" two thin 	he host receiver i and out of tune as the eye is also o d far, and long n short, 0 (as at pre <i>L</i> 38	sn't that near, the eye s well. If the module ut of tune. There's no ear and far, in Table essent) and 184, for # 147 , co-operate, enable,	SuggestedRe Change " Proposed Res Cl 120G Dawe, Piers Comment Typ I wonder documen providing and the S SuggestedRe Consider	medy tx_eq_state" to sponse SC 120G.3.2. De T what "control v t and in this su this mapping FF committee medy telling the stoo 120G-4 from 0	o "module output m <i>Response Status</i> 1 <i>P</i> : Nvid <i>Comment Status</i> variable" means, as ubclause it's "impler from S and L to 0 a p. ry without "control v	ode". O 234 a X I don't believe nentation dep nd 1 is helpful ariable", 0 and	L 41 e it is used a endent". Al - maybe it	anywhere else in this so I wonder whether

C/ 120G SC 120G.3	B.2.1 P 235	L 2	# 151	C/ 120G	SC 120G.5.2	P 246	L 23	# 154
Dawe, Piers	Nvidia			Dawe, Piers	3	Nvidia		
Comment Type TR	Comment Status X			Comment T	ype TR	Comment Status X		
5 Host Electrical Inte	lost Electrical Interface Codes' erface Codes, and the column i pair of host electrical interface	is headed "speci	fication". "Application"	mask) a measur This wil	although it is de ring a signal and Il get worse if w	we_3ck_01a_1020, this dr scribed as a histogram. It d provides weak and uncer e relax the VEC limits, and	s an inefficient/ina tain protection aga	ccurate way of inst too much jitter.
SuggestedRemedy					ls (see Mike Du	idek s work).		
Change "application	name" to "host electrical interf	ace" or "module	electrical interface".	Suggested	,			
Proposed Response	Response Status O			cornere Hmin*0	ed mask with co 0.4, +/-0.	ered mask with corners at t rners at t = ts+/-0.05, ts+/-	0.07, ts+/-0.1, V =	+/-Hmin/2, +/-
C/ 120G SC 120G.3	B.2.1 P 235	L 8	# 152	VEC. 1	There will be dis	Hmin, already specified, is ccussion about changing th ethod that can remain as th	ose limits from oth	er comments, but this
Dawe, Piers	Nvidia			Proposed F		Response Status 0		
Comment Type E "IEEE Interface Type Unwarranted.	Comment Status X " is too grand: IEEE is much v	vider than 802.3,	and the Capitals Are	·				
SuggestedRemedy Change to "IEEE 802	2.3 interface type"							
Proposed Response	Response Status O							
C/ 120G SC 120G.5	5.2 P 245	L 9	# 153					
awe, Piers	Nvidia							
Comment Type TR	Comment Status X							
	gDC with stronger gDC2, we c 16 dB for gDC2 = -3 - yet we d							
SuggestedRemedy								
For TP1a, change th is 13).	e second -12 to -11, and -13 to	o -10 (so the stro	ngest "CTLE peaking"					
Proposed Response	Response Status O							