C/ 1 SC 1.	3	P 32	L 14	# 50	C/ 120	SC 120	.5.7.2	P 103	L 44	# 56
Lusted, Kent		Intel Corporat	tion		Slavick, Jef	f		Broadcom		
Comment Type	E Com	nment Status D		editorial (bucket1)	Comment T	ype TI	R	Comment Status D		editorial (bucket1)
		P-DD MSA v4.2 was p://sfp-dd.com/wp-cor		0, not August 10, 2020 20/08/SFP-		pper PMD		rth paragph it has removed th	e requiremen	t of this paragraph for
SuggestedRemedy						-	KR4/CI	R4 to the list in the first sente	nce	
Change the dat	e to August 17,	2020			Proposed R			Response Status W		
Proposed Respons PROPOSED A	•	onse Status W			,	SED ACC	CEPT.	Response Status W		
					C/ 120F	SC 120	F.3.1	P 212	L 50	# 47
	20.5.7.2	P 102	L 30	# 55	Brown, Mat	t		Huawei		
Slavick, Jeff		Broadcom			Comment T	ype T		Comment Status D		editorial (bucket1)
In the change t copper PMDs.		ph it has removed the	e requirement of	this paragraph for 50G		ter equali 1.4."		is repeated in both 120F.3.1 a y be configured via the trans		
		he list in both the first	and second ser	ntences.	00	he senter	nce in 1	20G.3.1.		
Proposed Respons PROPOSED A	1-	onse Status W			Proposed R PROPC	esponse SED ACC	CEPT.	Response Status W		
C/ 120 SC 12	20.5.7.2	P 102	L 45	# 54	C/ 120G	SC 120	G.1	P 229	L 2	# 16
Slavick, Jeff		Broadcom			Dudek, Mike	Э		Marvell		
Comment Type	TR Con	nment Status D		editorial (bucket1)	Comment T	ype TI	R	Comment Status D		editorial (bucket1)
		variables" and "by the			135.1.5	does not	appear	r to exist and if it did it is unlik	ely to include	these AUI's
		ms to be too much si			SuggestedF	Remedv				
		D precoder_rx_in_ena		et as determined in the 136.8.11.7.5)"	00		ence fr	om 135.1.5 to 135.1.4 and m	ake it a hot lin	k and either remove the
SuggestedRemedy		g		,				create a table that summarize		
	_enable_i shall	to be ""precoder_tx_d be set as determined see Fig 136-7)"			Proposed R PROPC	SED ACC		Response Status W N PRINCIPLE.		
Proposed Respons	e Resp	onse Status W						e to 80.1.5, not 135.1.5. .1.5" and make it an active c	oss-reference	
	CCEDT				Change	100.1.0	10 00			

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E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

PROPOSED ACCEPT.

C/ 120G SC 120G.1 Page 1 of 6 2021-01-21 4:08:32 PM

C/ 120G SC 120G.1	P 229	L3	# 15	C/ 120G	50	120G.3.3	P 237	L 37	# 138
Dudek, Mike	Marvell	23	# 15	Ran, Adee	50	1200.3.3	Intel	L 31	# 130
Comment Type E	Comment Status D		editorial (bucket1)	Comment T	vpe	т	Comment Status D		TP4a/TPRLCD (bucket1
Clause 116.1.4 is inclu	ded in the draft and should b	be a hot link	(1111)	For mo	dule ou	utput (120	G.3.2, table 120G-3), host i	nput (120G.3.3	
SuggestedRemedy Make this a hot link.							, table 120G-9), the referen min)" is incorrect - 120G.3.1		
Proposed Response PROPOSED ACCEPT	Response Status W			There is output.	s one s	subclause	that discusses RLCD, 1200	G.3.1.1, but it is	currently specific to host
				SuggestedF					
C/ 120G SC 120G.1	P 229	L 5	# 21	Change	e refere	ence from	120G.3.1.2 to 120G.3.1.1 i	n the 3 tables.	
Dudek, Mike	Marvell			Rephra	se the	text in 12	0G.3.1.1 to refer to both ho	and module,	output and input.
Comment Type E	Comment Status D		editorial (bucket1)	Proposed R	Respon	ise	Response Status W		
Annex 135A and 120A	are part of this draft.						IN PRINCIPLE.		
SuggestedRemedy							3.1.2 is incorrect and should		
Make these references	hot links.						mon to refer to specificatio referenced subclause. No		
Proposed Response	Response Status W			required	-				
PROPOSED ACCEPT				For RL0 120G.3		Table 120	G-3, Table 120G-6, and Tal	ole 120G-9, cha	inge the reference to
C/ 120G SC 120G.3.2	P 234	L 10	# 13	C/ 120G.3		120G.5.2	P 246	L 23	# 4
Dudek, Mike	Marvell			Mellitz, Rich		1200.3.2	Samtec	L Z 3	# 4
Comment Type T	Comment Status D		editorial (bucket1)	Comment T		TR	Comment Status D		EO method (bucket1
	n near and far eye measurer	nents in table 12	20G-3 are to the host				2 Eye opening measuremen	t method indic	, ,
output. They should be	e to the module output						nd not "within 0.025 UI of tir		
SuggestedRemedy							ved with "Alt. 2" with TBD =		ealey_3ck_02_1020
Change the reference f	rom 120G.3.1.5 to 120G.3.2	2.2			0		und Ts for histogram meas	irements.	
Proposed Response	Response Status W			SuggestedF					
PROPOSED ACCEPT	-						0.025 UI of time Tcmid from	steps h and j	n 120G.5.2
In Table 120G-3, for ro from "120G.3.1.5" to "1	ws for NE EH, NE VEC, FE	EH, and FE VE	C change the reference	Proposed R	•		Response Status W		
	200.3.2.2 .			The refe no long Change	erence er rele e: 'and	e text is int vant. How I not "withi	IN PRINCIPLE. ended to point out that the rever, as written it is somew in 0.025 UI of time TCmid''' .025 UI of time TCmid'''		

C/ 120G SC 120G.5.2

C/ 136 SC 136.8.11.7.1 P 114 L 37 # 48	C/ 136 SC 136.8.11.7.1 P 114 L 39 # 52
Lusted, Kent Intel Corporation	Slavick, Jeff Broadcom
Comment Type TR Comment Status D training (buck	et1) Comment Type TR Comment Status D training (bucket1
Based on the link training change proposed in https://www.ieee802.org/3/ck/public/20_10/lusted_3ck_02_1020.pdf, a new variable "use_quiet_in_training" was defined in Clause 136.8.11.7.1. This variable has an explic setting of FALSE for 50 Gb/s per lane PHYs. However, no specific mention of the varia value is made for 100 Gb/s per lane PHYs. This could lead to confusion in the industry some vendors may interpret the "use_quiet_in_training" capability as optional to implement, while it was intended to be mandatory for 100 Gb/s per lane PHYs.	le happens when it's TRUE not what makes it TRUE
SuggestedRemedy	0
In Cl 162.8.11, add a new entry to the list as follows: h) the variable "use_quiet_in_training" (see 136.8.11.7.1) is always set to TRUE for 100 Gb/s per lane PHYs."	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W	Cl 162 SC 162.8.11 P 150 L 34 # 49
PROPOSED ACCEPT IN PRINCIPLE.	Lusted, Kent Intel Corporation
Resolve using the response to comment #53.	Comment Type TR Comment Status D training (bucket)
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE	requirements. SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input."
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE	 frames during startup are malformed logically yet meet the electrical compliance requirements. SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." Proposed Response Response Status W PROPOSED ACCEPT.
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE Proposed Response Response Status W	 frames during startup are malformed logically yet meet the electrical compliance requirements. SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." Proposed Response Response Status W PROPOSED ACCEPT.
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE Proposed Response Response Status W	frames during startup are malformed logically yet meet the electrical compliance requirements. SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." Proposed Response Response Status W PROPOSED ACCEPT. C/ 162 SC 162.9.3.1.4 P 155 L 46 # 59
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE Proposed Response Response Status W	frames during startup are malformed logically yet meet the electrical compliance requirements. or SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." is Proposed Response Response Status W PROPOSED ACCEPT. C/ 162 SC 162.9.3.1.4 Wu, Mau-Lin MediaTek
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE Proposed Response Response Status W	eff() frames during startup are malformed logically yet meet the electrical compliance requirements. or SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." is Proposed Response Response Status W PROPOSED ACCEPT. C/ 162 SC 162.9.3.1.4 P 155 Vu, Mau-Lin MediaTek Comment Type T The step size of TX EQ coefficient had been changed from 2% to 2.5%. The "coefficient
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE Proposed Response Response Status W	frames during startup are malformed logically yet meet the electrical compliance requirements. or SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." is Proposed Response Response Status W PROPOSED ACCEPT. Cl 162 SC 162.9.3.1.4 P 155 L 46 Wu, Mau-Lin MediaTek Comment Type T Comment Type T Comment Type T Comment Status D The step size of TX EQ coefficient had been changed from 2% to 2.5%. The "coefficient step size" shall be modified from 0.02 to 0.025.
The intent of the new QUIET state is to make it so all newly developed PHYs will use the features to avoid the deadlock situation. So the QUIET state should mandatory except 50G PHY types. SuggestedRemedy Change the last sentence of the use_quiet_in_training definition to read as "This variable always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE Proposed Response Response Status W	frames during startup are malformed logically yet meet the electrical compliance requirements. or SuggestedRemedy Change item g) to be " provided that there is a compliant signal containing valid training frames at the PMD input." is Proposed Response Response Status W PROPOSED ACCEPT. Cl 162 SC 162.9.3.1.4 P 155 L 46 Wu, Mau-Lin MediaTek Comment Type T Comment Type T Comment Status D The step size of TX EQ coefficient had been changed from 2% to 2.5%. The "coefficient step size" shall be modified from 0.02 to 0.025. SuggestedRemedy Change < to a request to "increment" shall be between 0.005 and 0.02,> to < to a

Cl	162	
SC	162.9.3.1.4	

C/ 162 SC 162.9.3.1.4 P 155 L 47 # 60	C/ 162 SC 162.9.3.3 P 156 L 31 # 142
Wu, Mau-Lin MediaTek	Dawe, Piers Nvidia
Comment Type T Comment Status D TX EQ (bucket	1) Comment Type T Comment Status D TX SNDR (bucket 1
The step size of TX EQ coefficient had been changed from 2% to 2.5%. The "coefficient	The transmitter SNDR measurement uses the method described in
step size" shall be modified from -0.02 to -0.025.	SuggestedRemedy
SuggestedRemedy Change < to a request to "decrement" shall be between -0.02 and -0.005.> to < to a	Transmitter SNDR is defined by the [measurement] method {of described in}
request to "decrement" shall be between -0.025 and -0.005.>.	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE. Change:
PROPOSED ACCEPT.	"The transmitter SNDR measurement uses the method described in 120D.3.1.6 with the
C/ 162 SC 162.9.4.1 P 158 L 23 # 46	 exception that the linear fit procedure in 162.9.3.1.1 is used." To:
Brown, Matt Huawei	"The transmitter SNDR is defined by the the measurement method described in 120D.3.1.6
Comment Type T Comment Status D rate tolerance (bucket	with the exception that the linear fit procedure in 162.9.3.1.1 is used."
The list of related subclauses should include 162.9.4.2.	CI 162A SC 162A.2 P 253 L 24 # 57
SuggestedRemedy	Wu, Mau-Lin MediaTek
Change "162.9.4.3 and 162.9.4.4" to "162.9.4.2, 162.9.4.3, and 162.9.4.4".	Comment Type T Comment Status D editorial (bucket)
Proposed Response Response Status W	TP0a had been replaced by TP0v in Clause 163.9.2.
PROPOSED ACCEPT.	SuggestedRemedy
C/ 162 SC 162.11.7.2 P 171 L 1 # 95	 Change "The recommended transmitter characteristics at TP0 as measured at TP0a are described in 163.9.2." shall be changed to "The recommended transmitter characteristics
Haser, Alex Molex	at TP0 as measured at TP0v are described in 163.9.2."
Comment Type E Comment Status D COM XTALK (bucket	1) Proposed Response Response Status W
"The crosstalk paths for each MDI type are given in Table"; the table specifies the	PROPOSED ACCEPT.
number of crosstalk paths, not the paths themselves	C/ 162A SC 162A.3 P 253 L 29 # 58
SuggestedRemedy	Wu, Mau-Lin MediaTek
Change text to "The number of crosstalk paths of each MDI…"	Comment Type T Comment Status D editorial (bucket1
Proposed Response Response Status W	TP5a had been replaced by TP5v in Clause 163.9.3.
PROPOSED ACCEPT.	SuggestedRemedy
	Change "The recommended receiver characteristics at TP5 as measured at TP5a are described in 163.9.3." shall be changed to "The recommended receiver characteristics at TP5 as measured at TP5v are described in 163.9.3."
	Proposed Response Response Status W

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C/ 162B SC 162B.1	P 259	L 17	# 6	C/ 162B	SC 162B.1.3.	2 P 262	L 41	# 7
Dudek, Mike	Marvell			Dudek, Mike		Marvell		
Comment Type TR	Comment Status D		test fixture (bucket1)	Comment Ty	pe T	Comment Status D	ИT	F ERL reference (bucket1,
	TP1 or TP4 etc. are made wi ed test fixture (162B.1.3)	th the Cable As	sembly Test fixture	Table 16 SuggestedRe		d to crosstalk parameters not E	RL	
SuggestedRemedy On line 18 change 162	B.1.3 to 162B.1.2			Change	162B-2 to 162I	B-1 (two places0		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Re PROPOS	SED ACCEPT.	Response Status W		
	P 259	L 17	# 22	C/ 162C	SC 162C.2.2	P 275	L 12	# 43
		L 17	# 22	Brown, Matt		Huawei		
Dudek, Mike Comment Type TR The measurements at T mated test fixture (162E	Marvell Comment Status D TP2 or TP3 etc. are made wi 3.1.3)	th the Test fixtu	test fixture (bucket1) re (162B.1.1) not the	SuggestedRe	hics in Figure medy	Comment Status D 162C-3 and Figure 162C-44 ar	e missing.	MDI graphic (bucket1,
SuggestedRemedy				Provide g	graphics.			
On line 17 change 162	B.1.3 to 162B.1.1			Proposed Re	,	Response Status W		
Proposed Response PROPOSED ACCEPT.	Response Status W			Insert gra		IN PRINCIPLE. d in the following presentation:		
C/ 162B SC 162B.1.3.	6 P 265	L 36	# 100	C/ 162D	SC 162D.1.1	P 283	L 31	# 9
Haser, Alex	Molex			Dudek, Mike		Marvell		
Comment Type ER CMDRL(f) is defined as	Comment Status D common-mode return loss;		TF RLDC name (bucket?)	Comment Ty The 100		Comment Status D the Title of Table 162D-3 show	uld be 200G	editorial (bucket1, BASE-CR2.
SuggestedRemedy Define CMDRL(f) as co	mmon-mode to differential n	node return loss	i	SuggestedRe Change	-			
Proposed Response PROPOSED ACCEPT.	Response Status W				, SED ACCEPT	Response Status W IN PRINCIPLE. 62D-3 to "200GBASE-CR2".		

C/ 162D SC 162D.1.1

-								
C/ 162D SC 162D.1.1	P 283	L 50	# 10	C/ 163A SC	163A.4.1.2	P 289	L 46	# 11
Dudek, Mike	Marvell			Dudek, Mike		Marvell		
Comment Type E There is an unfortunate	Comment Status D e page break in the middle of	Table 162D-3	formatting (bucket1)	Comment Type missing space	E ce between	Comment Status D 'in" and "93A.5"		editorial (bucket1
SuggestedRemedy				SuggestedReme	dv			
00 ,	at this table is all on one page	9		fix it	.,			
Proposed Response	Response Status W			Proposed Respo	nse	Response Status W		
PROPOSED REJECT.				PROPOSED				
There is a trade-off bet	ween large tables spanning p	ages and leavin	ng big holes; leave as	. <u></u>				
is; also the tables are g ballot to refine.	poing to be shifting around un	til the text beco	mes stable; wait for SA		163B.2	P 291	L 9	# 12
			"	Dudek, Mike		Marvell		
C/ 163 SC 163.9.2.3	-	L 16	# 66	Comment Type	TR	Comment Status D		/TP5v example (bucket1
Healey, Adam Comment Type E	Broadcom Inc Comment Status D		(bucket1)			ture moved to an Annex it package parameters etc.	is necessary to	refer to the relevant
Subclause title is incor			(DUCKE(1)	SuggestedReme	dy			
Proposed Response PROPOSED ACCEPT.	to "Difference steady-state v Response Status W	oltage".			3 are listed <i>nse</i>	ding to the methodology in in Table 163B–1" <i>Response Status</i> W	163A.3 using th	e parameters supplied
C/ 163 SC 163.10.1	P 190	L 26	# 137					
Ran, Adee	Intel							
Comment Type E	Comment Status D		editorial (bucket1)					
	"Channel Operating margin" and ERL requirements.	so it should onl	y discuss COM, not					
There are additional re-	quirements not listed here (e.	g. mode convei	sion loss, 163.10.4)					
SuggestedRemedy								
Move the second paraget subclause 163.10.	graph (which points to 163.10	.2 and 163.10.3) to the parent					
Consider adding a sum	mary table in 163.10 as in the	e Tx and Rx cha	aracteristics.					
Proposed Response	Response Status W							
	IN PRINCIPLE.	.2 and 163.10.3						

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: Clause, Subclause, page, line

C/ 163B SC 163B.2 Page 6 of 6 2021-01-21 4:08:32 PM