C/ 1	SC 1.4	P 32	L 65	# I-118	Cl 45	SC 45.2.1.2	1 P 42	L 3	# I-7
Ghiasi, A	Ali	Ghiasi Quante	um LLC,Marvell	Semiconductor, Inc.	Marris, Ar	rthur	Cadence E	Design Systems, I	nc.
	DD operates at 50	Comment Status D 0G and with SFP-DD112 there	e is no reason to	<i>(bucket4)</i> include SFP-DD	•	51	Comment Status D 02.3db draft 2.1 and also 4	5.2.1.24 and any o	<i>(bucket4)</i> other subclauses as
00	ed <i>Remedy</i> se remvoe SFP-D	D			Suggeste	<i>dRemedy</i> ge editing instru	ation from:		
PRO	d Response POSED ACCEPT ove "SEP-DD" froi	Response Status W IN PRINCIPLE. m footnote 4 with editorial lice	anse		"Char To: "Char	nge Table 45–23	as follows (some unchang (as modified by IEEE 802.		,
C/ 45 Ben-Arts	SC 45.2.1.6 i, Liav	P 40 Marvell Semio	L 12 conductor, Inc.	# [-228		ble 45-24 show i	reserved row as crossed ou	t and change bits	to "1.23:8:7" to match
Suggeste Add Proposed PRO	1011111 is define edRemedy 1011111 as reserved d Response POSED REJECT.	Response Status W	SE-SR8 PMA/PI	(bucket4) MD" in the base	to: "Inser 202x) Renu	rt 45.2.1.21.1c a as follows:" mber 45.2.1.21 ble 45-27 show i	.21.1a and 45.2.1.21.1b aft nd 45.2.1.21.1d after 45.2.1 .1a and 45.2.1.21.1b to 45 reserved row as crossed ou	.21.1b (as insert	ed by IEEE 802.3db- .2.1.21.1d
-		s unchanged there is no need			Proposed PROF There	Response POSED ACCEP	Response Status W T IN PRINCIPLE. atting errors in the suggeste	d remedy, but the	se can be addressed

Align with 802.3db per the suggested remedy with editorial license.

C/ **45** SC **45.2.1.21**

CI 45	SC 45.2.1.21	P 42	L 11	# I-160	C/ 120F So	C 120F.1	P 237	L 43	# <u>I</u> -91
Dawe, Pie	ers J G	NVIDIA			Grow, Robert		RMG Consu	Iting	
	51	Comment Status D this table, so the next row al	oove is 200GBA	<i>(bucket4)</i> SE-VR2 ability not	Comment Type Similar mis SuggestedRem	uses of "co	Comment Status D mprise" have been rewritten	using "compos	<i>(bucket4)</i> se" in P802.3/D3.0.
Show and so Chang 1.23.1 to 1.23.9 PMA/ Adjus table	ome clashes spott ge 14:9x7/x Reserve 9 200GBASE-VR PMD is not able to	ed Value always 0 RO 2 ability 1 = PMA/PMD is perform 200GBASE-VR2 t line 3 to mention the prece	able to perform RO	200GBASE-VR2 0 =	The C2M in Proposed Resp PROPOSE Change: "T To: "The C2	terface is c onse D ACCEPT he C2C inte 2M interface C 120F.3.1	composed of independent tra <i>Response Status</i> W "IN PRINCIPLE. erface comprises independent the is composed of independent <i>P</i> 239 Samtec, Inc.	nt data paths ir nt transmit and <i>L</i> 13	n each direction."
PROF	Response POSED ACCEPT I	Response Status W N PRINCIPLE.			Comment Type DER0 for 12 reference to	TR 20F is 1e-5 adjust for	Comment Status D and DER0 for 163 is 1e-4. 1		AC CM noise (bucket o 163.9.2.7 need a
2/ 45 Dawe, Pie	SC 45.2.1.116	6 P 45 NVIDIA	L 22	# I-161		ote to SCN	IR(min) to compute V_CMP).999995. (1.e. 1e-5).	P to with the d	stribution range to be
Comment		Comment Status D		(bucket4)	Proposed Resp	onse	Response Status W		
Chang for PH Proposed	<i>dRemedy</i> ge "only applicable HYs that include m <i>Response</i> POSED ACCEPT.	e for PHYs that include multi ultiple FEC sublayers" Response Status W	ble FEC sublaye	ers" to "applicable only	Resolve usi	ng the resp	oonse to comment i-101.		
2/ 116	SC 116.4	P 101	L 17	# 1-98					
Parsons, Comment 802.3	Туре Е	CommScope, Comment Status D SE-VR4 to Table 116-7 abo		(bucket4) SR16					
00	dRemedy ace the 400GBASE	-SR16 row with 400GBASE	-VR4.						
Proposed	Response POSED ACCEPT.	Response Status W							

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 U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 120F SC 120F.3.1 Page 2 of 5 2022-02-02 6:28:36 PM

C/ 120F SC 120F.3.1 P239 L 13 # 1-102	Cl 120G SC 120G.3.1 P 258 L 13 # 1-104					
Mellitz, Richard Samtec, Inc.	Mellitz, Richard Samtec, Inc.					
Comment Type TR Comment Status D AC CM noise (bucket4)	Comment Type TR Comment Status D AC CM noise (bucket4)					
Low frequency CM will not be very dependent on a test fixture. Signal to AC common- mode noise ratio, SCMR (min), is related to the Peak Pulse and used to compensate for test fixture loss. Since the low frequency the loss is very small the tp0v compensation is not correct. As demonstrated in mellitz_3k_adhoc_01_120821 noise originating from a power supply or other low frequency sources can be detrimental,	RMS is poor indicator for CM mode noise. See CM histograms in mellitz_3k_adhoc_01_120821, mellitz_3ck_01a_0721, and mellitz_3ck_adhoc_01_121620. Clause 163.9.2.7 defines a more meaningful parameter V_CMPP as the peak-to-peak AC common-mode voltage.					
	SuggestedRemedy					
SuggestedRemedy Add a new line to table 120F-1 called maximum low frequency AC common mode max peak to peak noise (V_CMPP) and set to 30 mV. Create a new section for such indicating	Replace "AC common-mode output voltage (max, RMS)" with V_CMPP as the peak-to- peak AC common-mode voltage and set to 213 mV but define the distribution range to be between 0.000005 to 0.999995. (1.e. 1e-5) See presentation.					
the a low pass 4th order Bessel Thomson filter with a 3 dB point of 10 MHz is to be applied to the CM measurement. Additionally in section 163.9.2.7 indicate that the a high pass 4th order Bessel Thomson filter with a 3 dB point of 10 MHz is to be applied to the AC CM measurement and set SCMR (min) to 10.7 dB. See presentation.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.					
Proposed Response Response Status W	Resolve using the response to comment i-103.					
PROPOSED ACCEPT IN PRINCIPLE.	C/ 120G SC 120G.3.2 P 261 L 7 # I-105					
	Mellitz, Richard Samtec, Inc.					
Resolve using the response to comment i-101.	Comment Type TR Comment Status D AC CM noise (bucket4)					
C/ 120G SC 120G.1 P 256 L 11 # 1-92	RMS is poor indicator for CM mode noise. See CM histograms in mellitz_3k_adhoc_01_120821, mellitz_3ck_01a_0721, and mellitz_3ck_adhoc_01_121620. Clause 163.9.2.7 defines a more meaningful parameter					
Grow, Robert RMG Consulting						
Comment Type E Comment Status D (bucket4)	V_CMPP as the peak-to-peak AC common-mode voltage.					
Similar misuses of "comprise" have been rewritten using "compose" in P802.3/D3.0.	SuggestedRemedy					
SuggestedRemedy	Replace "AC common-mode output voltage (max, RMS)" with V_CMPP as the peak-to-					
The C2M interface is composed of independent transmit and receive data paths.	peak AC common-mode voltage and set to 213 mV but define the distribution range to be					
Proposed Response Response Status W	between 0.000005 to 0.999995. (1.e. 1e-5). See presentation					
PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W					
Change: "The C2M interface comprises independent data paths in each direction."	PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment i-103.					

C/ 120G SC 120G.3.2 Page 3 of 5 2022-02-02 6:28:36 PM

C/ 162 SC 162.9.2	P 165	L 45	# I-89	C/ 162	SC 162.9.4.3	P 17	74 L 24	# <mark>I-191</mark>	
Grow, Robert	RMG Consult	ting		Dawe, Pier	rs J G	NVIDI	A		
Comment Type ER Con Similar misuses of "comprise"	nment Status D have been rewritten u	using "compose"	<i>(bucket4)</i> in P802.3/D3.0. This	Comment T Improv		Comment Status bearing in mind that 8	D 802.3 is not a test spec	RITT (CC) (bucket4)	
text also contradicts other text in 802.3 a data path is compos sublayer descriptions, etc. He p. 256, l. 12 it says "Each 100 contains one, two, or four diffe text uses path without qualifier used. This in general is confu SuggestedRemedy	sed of a set of signals ere, it states that a "pa GAUI-1, 200GAUI-2, a rential lanes." This so r. In other parts of the	(e.g., xMII), one ath corresponds t and 400GAUI-4 C ubclause is titled	or more lanes in other to one MDI lane"yet on C2M data path signal path, yet the	impres definiti toleran Improv It seen have n measu	sion because it son/explanation/d ce or stressed ir ing consistency.	says something "is me letail subclauses that apput tolerance don't do ese would work but the	e introductory sentence easured". Other paran aren't receiver interfere o this. ere may be a reason fo	neter ence tolerance, jitter	
162.9.2 MDI connections				proced methor					
The MDI transmit and receive path is composed of one or me				Suggested	Remedy				
complementary signals, formir					format similar to rement method.		IDR. "The transmitter S	SNDR is defined by the	
For 100GBASE-CR1, there is or four connections. For 200GBASE- total of four pairs, or eight con lanes in each direction for a to	CR2, there are two dif nections. For 400GB/	ferential lanes in ASE-CR4, there a	each direction for a are four differential	Here a the pro proced Similar	nd in 162.9.4.4.7 cedure" to "Re ure method } ly in 163 and 12	1, change "Receiver ir eceiver interference to "	plerance is defined by t	s measured according to he measurement {	
Proposed Response Resp	oonse Status W			Host stressed input tolerance is measured according to the procedure					
PROPOSED ACCEPT IN PRINCIPLE. The text in Clause 162 follows the precedent set in Clause 136, although "composed" is used rather than "comprised" in 802.3dc.				to Host stressed input tolerance is defined by the measurement { procedure method } And similarly in 120G.3.4.3, Module stressed input tolerance. For consistency, in 162.9.3.5, Transmitter effective return loss (ERL), "ERL of the transmitter at TP2 is computed using the procedure", change "is computed using" to "is					
However, the suggested reme		description of the	e signal paths.	defineo too, as	d by" (there's mo mentioned in 93	ore to it than calculatio 3A.5.1).	on, an S-parameter me	asurement is needed	
Implement the suggested rem	edy.						on rather than a require to no further change is	ement to test, it's OK to needed for this.	
				Proposed I	Response	Response Status	w		
				PROP	OSED ACCEPT	IN PRINCIPLE.			
					s note: Changeo s note: CC: 120	d page/line from 265/3 G, 162]	31 to 174/24]		
						in 163.9.3.5 and 120F o changes are require		ten in the form proposed	
					In 162.9.4.3 Change "Receiver interference tolerance is measured according to the procedure described in 162.9.4.3.1 through 162.9.4.3.5." To: "Receiver interference tolerance is defined by the procedure described in 162.9.4.3.1				
TYPE: TR/technical required ER/e COMMENT STATUS: D/dispatche					U/unsatisfied 2	Z/withdrawn	C/ 162 SC 162.9.4.3	Page 4 of 5 2022-02-02 6:28	

SORT ORDER: Clause, Subclause, page, line

through 162.9.4.3.5."

In 162.9.4.4...

Add the following sentence:

To: "Receiver jitter tolerance is defined by the procedure described in 162.9.4.4.1 and 162.9.4.4.2."

In 120G.3.3.5

Change "Host stressed input tolerance is measured according to the procedure described in 120G.3.3.5.1 through 120G.3.3.5.3."

To "Host stressed input tolerance is defined by the procedure described in 120G.3.3.5.1 through 120G.3.3.5.3."

In 120G.3.4.3

Change "Module stressed input tolerance is measured according to the procedure described in 120G.3.4.3.1 through 120G.3.4.3.3."

To "Module stressed input tolerance is defined by the procedure described in 120G.3.4.3.1 through 120G.3.4.3.3."

In 162.9.3.5...

Change "ERL of the transmitter at TP2 is computed using the procedure in 93A.5" To "ERL of the transmitter at TP2 is defined by the procedure in 93A.5"

Implement with editorial license.

C/ 162	SC 162.11.7	P 1	85	L 46	# I-138
Hidaka, Y	asuo	Cred	o Semio	conductor	
Comment	Туре Т	Comment Status	D		(bucket4)
The m	neaning of "any c	hannel within the cab	le asse	mbly" is not clear.	
Suggestee	dRemedy				
Chang	ge "any channel"	to "any lane".			
Proposed	Response	Response Status	w		
PROF	POSED ACCEPT				

Cl 162	SC 162.14.4.5	5 P1	96	L 8	# I-139
Hidaka, Ya	ISUO	Crede	o Semicondu	uctor	
Comment 7	Туре Т	Comment Status	D		PICS (bucket4
The me	eaning of "all cha	innels within the cab	le assembly	" is not clea	ır.
Suggested Change	<i>Remedy</i> e "all channels" v	vith "all lanes".			
Proposed F PROP	Response OSED ACCEPT	Response Status	W		
The Pl	CS language sho	ould align with the no	ormative text		
Change	e "all channels" t	o "any lane"			
C/ 162B	SC 162B.2.1	P 2	91	L 49	# I-217
Dawe, Pier	rs J G	NVID	IA		
Comment T		Comment Status	D		(bucket4
Suggested	Remedy				
Proposed F PROP	Response OSED ACCEPT I	Response Status	w		
A simil	ar change is nec	essary on page 290	line 49.		
Change	e "fixtures" to "fix	ture" on page 209 lii	ne 49 and or	n page 291	line 49.
C/ 163	SC 163.11	P 2	18	L 37	# [-90
Grow, Rob	ert	RMG	Consulting		
Comment 7 Similar		Comment Status	-	g "compose	<i>(bucket4)</i> in P802.3/D3.0.
Suggested "The M	<i>Remedy</i> IDI is composed	of"			
Proposed F	•	Response Status	w		

PROPOSED ACCEPT.

C/ 163 SC 163.11 Page 5 of 5 2022-02-02 6:28:36 PM