IEEE P802.3ck D1.4 100/200/400 Gb/s Electrical Interfaces Task Force 5th Task Force review comments

C/ 162	SC 162.11	P 163	L 17	# 25	C/ 162 SC 162.11	P 163	L 18	# 94	
Brown, Matt	t	Huawei			Haser, Alex	Molex			
<i>Comment Ty</i> In Table	<i>ype</i> T e 162-16, the sp	Comment Status D ecified value for cable assem	nby ERL is TBD	CA ERL (bucket2)	Comment Type TR Fill in TBD for CA ERL I	Comment Status D		CA ERL (bucket2)	
SuggestedR Provide	Remedy a value or equa	ation and update PICS.			SuggestedRemedy Replace TBD with 7.4 d	B based on champion_3ck_	_02_1020.pdf sli	de 6	
Proposed Re PROPO Resolve	Response DSED ACCEPT e using response	Response Status W IN PRINCIPLE. e to comment#103			Proposed Response PROPOSED ACCEPT I Resolve using response	Response Status W N PRINCIPLE. to comment#103			
C/ 162	SC 162.11	P 163	L 17	# 120	C/ 162B SC 162B.1.3.2	2 P 262	L 43	# 42	
Ran, Adee		Intel			Brown, Matt	Huawei			
Comment Ty (address	<i>ype</i> TR sing TBD)	Comment Status D		CA ERL (bucket2)	Comment Type T The specified value for I	Comment Status D MTF ERL is TBD.		MTF ERL (bucket2)	
Minimun	m cable assemb	DIY ERL IS TBD.			SuggestedRemedy				
In anoth	ner comment I a	m suggesting setting the mir	nimum ERL of a	MTF to 10.3 dB to	Provide a value and upo	late PICS.			
enable n	measurement of	f the internal host circuitry. B	ased on this pro	posal, the ERL of a	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
		the apple has more uniform.	impedance than	the best beard as its	PROPOSED ACCEPT I	N PRINCIPLE.			
It can be ERL will	e assumed that I be closer to that	the cable has more uniform at of a MTF.	impedance than	the host board, so its	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE. onse comment #112.			
It can be ERL will The sug	e assumed that I be closer to that ggested value al	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca	impedance than ble assembly im	the host board, so its	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE.			
It can be ERL will The sug SuggestedR Change	e assumed that I be closer to that ggested value al Remedy TBD to 9 dB.	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca	impedance than ble assembly im	the host board, so its	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE.			
It can be ERL will The sug SuggestedR Change Proposed Re PROPO Resolve	e assumed that I be closer to that ggested value al Remedy TBD to 9 dB. Response OSED ACCEPT e using response	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca <i>Response Status</i> W IN PRINCIPLE. e to comment#103	impedance than	the host board, so its	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE. onse comment #112.			
It can be ERL will The sug SuggestedR Change Proposed Re PROPO Resolve C/ 162	e assumed that I be closer to that geested value al Remedy TBD to 9 dB. Response OSED ACCEPT e using response SC 162.11	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca <i>Response Status</i> W IN PRINCIPLE. e to comment#103 <i>P</i> 163	impedance than ble assembly im	the host board, so its oplementation.	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE.			
It can be ERL will The sug SuggestedR Change Proposed Re PROPO Resolve Cl 162 Kocsis, Sam	e assumed that I be closer to that ggested value al Remedy TBD to 9 dB. Response DSED ACCEPT e using response SC 162.11 n	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca <i>Response Status</i> W IN PRINCIPLE. e to comment#103 <i>P</i> 163 Amphenol	impedance than ble assembly im	the host board, so its aplementation.	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE. onse comment #112.			
It can be ERL will The sug SuggestedR Change Proposed Re PROPO Resolve C/ 162 Kocsis, Sam Comment Ty CA ERL	e assumed that I be closer to that gested value al Remedy TBD to 9 dB. Response OSED ACCEPT e using response SC 162.11 m <i>Type</i> TR requirement is	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca <i>Response Status</i> W IN PRINCIPLE. e to comment#103 <i>P</i> 163 Amphenol <i>Comment Status</i> D TBD	impedance than ble assembly im	the host board, so its applementation. # 113 CA ERL (bucket2)	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE.			
It can be ERL will The sug SuggestedR Change Proposed Re PROPO Resolve Cl 162 Kocsis, Sam Comment Ty CA ERL SuggestedR Replace	e assumed that I be closer to that I be closer to that ggested value al Remedy TBD to 9 dB. Response OSED ACCEPT e using response SC 162.11 m Type TR - requirement is Remedy e TBD with 9dB	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca <i>Response Status</i> W IN PRINCIPLE. to comment#103 <i>P</i> 163 Amphenol <i>Comment Status</i> D TBD	impedance than ble assembly im	the host board, so its aplementation.	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE. onse comment #112.			
It can be ERL will The sug SuggestedR Change Proposed Re PROPO Resolve CI 162 Kocsis, Sam Comment Ty CA ERL SuggestedR Replace Proposed Re	e assumed that I be closer to that I be closer to that gested value al Remedy TBD to 9 dB. Response OSED ACCEPT a using response SC 162.11 m Type TR requirement is Remedy a TBD with 9dB Response	the cable has more uniform at of a MTF. lows 1.3 dB difference for ca <i>Response Status</i> W IN PRINCIPLE. e to comment#103 <i>P</i> 163 Amphenol <i>Comment Status</i> D TBD <i>Response Status</i> W	impedance than ble assembly im	the host board, so its aplementation. # 113 CA ERL (bucket2)	PROPOSED ACCEPT I Resolve using the respo	N PRINCIPLE. onse comment #112.			

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/ 162B SC 162B.1.3.2 Page 1 of 2 2021-02-03 11:40:24 P IEEE P802.3ck D1.4 100/200/400 Gb/s Electrical Interfaces Task Force 5th Task Force review comments

C/ 162B	SC ·	162B.1.3.2	P 262	L 43	# 131	C/ 162B	SC 162B.1.3	B.2 P 262	L 43	# 105
Ran, Adee			Intel			Champion,	Bruce	TE Conr	nectivity	
Comment T	<i>ype</i> sing T	TR BD)	Comment Status D		MTF ERL (bucket2)	Comment T MTF EF	<i>ype</i> T RL is listed at T	Comment Status D BD in draft		MTF ERL (buck
"The mated test fixture ERL shall be greater than or equal to TBD dB"						SuggestedRemedy				
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.						TBD to be chaned to 9 dB. See diminico_3ck_03a_1020.pdf Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
 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. 					C/ 162B	SC 162B.1.3	B.2 P 262	L 43	# 98	
					Haser, Alex Comment T Fill in T	ς <i>γpe</i> TR BD for MTF EF	Comment Status D		MTF ERL (buck	
					SuggestedRemedy Replace TBD with 9 dB based on diminico_3ck_03a_1020.pdf slide 7					
SuggestedF Change	Remed minim	y num ERL fi	rom TBD to 10.3 dB.			PROPC	DSED ACCEPT	IN PRINCIPLE.		
In Table	e 162B	-1. change	e T fx from 0 to 0.2 ns.			C/ 162B	SC 162B.1.3	8.2 P 262	L 43	# 8
Proposed R	espon	se	Response Status W			Dudek, Mik	e	Marvell		
PROPC Resolve)SED / e using	ACCEPT II	N PRINCIPLE. nse comment #112.			Comment T The ER	<i>ype</i> TR L of the mated	Comment Status D test fixture should be sig	gnificantly better that	MTF ERL (buck an the specification for
C/ 162B	SC ·	162B.1.3.2	P 262	L 43	# 106	the ERI	L of the device	under test. The ERL of a Didel 3ck 01 0320 h	f the QSFP-DD imp bas an ERL of 15 7c	roved connector used
DiMinico, C	hristop	her	MC Commun	cations		SuggestedF	Remedy	.g blaci_cok_c +_cozo. h		
Comment Type TR Comment Status D MTF ERL (bucket2)					Change TBD to 14dB. Also put this in TF2 of the PICS.					
Provide value for mated test fixture ERL TBD.						Proposed Response Response Status W				
SuggestedF The ma Update	Remed ted tes PICS.	y st fixture El	RL shall be greater than or	equal to 9 dB.		PROPORES	DSED ACCEPT e using the resp	IN PRINCIPLE.		
See dim	ninico_	3ck_adho	c_01a_121620 slide 6.							
Proposed R	espon	se	Response Status W							
PROPC Resolve	SED / susing	ACCEPT II	N PRINCIPLE. nse comment #112.							

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/ 162B SC 162B.1.3.2

The ERL of the QSFP-DD improved connector used for

MTF ERL (bucket2)

MTF ERL (bucket2)

MTF ERL (bucket2)

Page 2 of 2 2021-02-03 11:40:24 P