IEEE P802.3ck D1.2 100/200/400 Gb/s Electrical Interfaces Task Force 3rd Task Force review comments

C/ 120F	SC 120F.3.1	P 205	L 13	# 29	C/ 120G SC 120G.3.	2 P 224	L 48	# 192	
Wu, Mau-l	_in	Mediatek			Ghiasi, Ali	Ghiasi Quant	tum/Inphi		
Comment	Туре Т	Comment Status D		bucket3	Comment Type TR	Comment Status D		bucket3	
The 'A 802.3c induce the P/I voltage Suggested Chang Proposed I PROP	C common-mode d. By combining crosstalk to diffe N skew mismatch we shall align <i>Remedy</i> e 30 mV to 17.5 <i>Response</i> OSED REJECT.	e RMS voltage (max.)' is 30 i this spec with P/N skew mis erential signal at receiver. Fro to half. Based on that, we s this spec to that in C2M (120 mV. <i>Response Status</i> W	mV, which is the match of backpl om 50G to 100G shall modify AC o 0G).	same as that in ane channel, it will , it's difficult to improve common-mode RMS	Far end eye height is TBD. SuggestedRemedy Far end EH=20 mV, see ghiasi_3ck_02_0620 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. [Editor's note: change subclause/line/page from 120F.4.2/211/48.] Resolve using the response to comment #177.				
!!! 202	0/7/15 new resp	onse !!!			C/ 120G SC 120G.3.	2 P 224	L 37	# 194	
Resolv	e using the resp	onse to comment #28.			Ghiasi, Ali Ghiasi Quantum/Inphi				
CI 120C	SC 120C 2 2	D 224	1 46	# 101	Comment Type TR	Comment Status D		bucket3	
	3C 120G.3.2	F ZZ4		# 191	Far VEC is TBD.				
Comment Type TR Comment Status D bucket3 Near end EH are TBD. SuggestedRemedy Near end EH=40 mV, see ghiasi_3ck_02_0620 Proposed Response Response Status W					SuggestedRemedy Far end VEC=7.5 dB, Proposed Response PROPOSED ACCEP [Editor's note: SC/pag				
PROP	USED ACCEPT	IN PRINCIPLE.			!!! 2020/7/15 new res	ponse !!!			
[Editor's note: changed subclause/page/line from 120F.4.2/211/46]					Resolve using the response to comment #177.				
Resolv	ve using the resp	onse to comment #177.							

C/ 120G SC 120G.3.2

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0/ 120G 30 120G.3.2	P 224	L 37	# 193	C/ 120G	SC 120G.3.2	P 224	L 43	# 11060
Ghiasi, Ali	Ghiasi Quant	um/Inphi		Ran, Adee		Intel		
Comment Type TR Near VEC is TBD.	Comment Status D		bucket3	Comment 7 [Comm	<i>Type</i> T ent resubmitted	Comment Status D from Draft 1.1. 120G.3.2, P2	224, L37]	bucket3
Near VEC is TBD. SuggestedRemedy Near end VEC=7.5 dB, se Proposed Response PROPOSED ACCEPT IN [Editor's note: changed su !!! 2020/7/15 new response Resolve using the response Resolve using t	ee ghiasi_3ck_02_0620 <i>Response Status</i> W I PRINCIPLE. ubclause/page/line from 12 se !!! nse to comment #177.	20F.4.2/211/48.]		[Common P [Common P PAM4. implem The cu ISI (onl defined large ra hosts. Actual indicati If we ig with the specs a The sta externa variable capabil Suggested/ A prese Proposed F PROPO III 2020 The fol http://w	ent resubmitted swing and Tx eq ange. A large sw Attenuation has ent with the larg rrent module out y implicitly throu l with a single ch ange of C2M hos modules even in ons that this cor nore this capabi e settings used f are useless and andard should at I documents) ar es and control re- ities. Remedy entation is plann Response DSED ACCEPT D/7/20 Update re- lowing presentat ww.ieee802.org, used response to addresses the co-	from Draft 1.1. 120G.3.2, P2 ualization are important in P ing at the host input may pro- been used in past Rx design e bandwidth requirements for put specifications have limiting far-end eye height and fa- iannel), and do not mention a st channels, it is unlikely that 150G have some control of e- torol is required for actual oper lity in the specifications, som or module output compliance measuring them is a waste of least mention the module's of preferably define requirem egisters. It will be beneficial if ed with further details. <i>Response Status</i> W IN PRINCIPLE. sponse. !!! ion was reviewed by the tash /3/ck/public/adhoc/may27_20 o comment #175 adopts two onfiguration of the module out a response to comment #176	224, L37] AM4 since the event linear opens, but it is become ins, but it is become r 100G. ed information a r-end precurson any control of the a fixed Tx setti equalization and events may ne events for the time. Tx control capa internation for the module output to the ta pre- D/ran_3ck_adhe module output to the ta pre-	vious task force meeting: bcc_01_052720.pdf (transmitter) settings, nsensus at this time to

C/ 120G SC 120G.3.2 IEEE P802.3ck D1.2 100/200/400 Gb/s Electrical Interfaces Task Force 3rd Task Force review comments

C/ 120G	SC 120G.3.2	P 224	L 44	# 238	C/ 120G	SC 120G.3.2	P 224	L 48	# 108			
Dawe, Piers	6	Nvidia			Hidaka, Ya	suo	Credo Sen	niconductor				
Comment T	ype TR	Comment Status D		bucket3	Comment 7	Type TR	Comment Status D		bucket3			
Unlike CR and KR, the host receiver can't choose what the module output should be like. The module output is supposed to be set to a compromise that's good enough for all						Near-end VEC (max) should be specified. See hidaka_3ck_01_0720, slide 6.						
hosts. scheme	But it may turn c is that burden th	out that that's not feasible.	Yet we want to av	old fussy tuning	Suggested	Remedy						
controll	ing multiple mod	ules.			To table 120G-3, add a row of "Near-end vertical eye closure (max)" with a value of 7.5 dB							
Suggested	Remedy				Bropood I		Dooponoo Statua M					
First ch	oice: continue w	ith present plan.			Proposed Response Response Status W							
Second use a b	l choice: let the r etter equalizer).	nost receiver sort out its cr	iannel (if crosstalk	or reflections are bad,	FROF	JSED ACCEPT	IN FRINCIFLE.					
Third cl	noice: host tells i	module to use one of just	wo sets of specs;	for low loss host	Resolve using the response to comment #177.							
channe one. bv	ls and for high lo a means we do	ess host channels. Module n't specify, based on know	e must be capable ledge of its own p	of both. Host selects reference and channel	C/ 120G	SC 120G.3.2	P 224	L 49	# 107			
loss. E	ye parameters d	efined at TP4 and after lo	ss 2 for the low los	s setting, after loss 1	Hidaka, Ya	suo	Credo Sen	niconductor				
and los host ca setting.	s 3 for the high I n choose by ver	oss setting. Generous ove v simple means. Conside	reduced pk-pk V	two loss ranges so the max for the low loss	Comment Type TR Comment Status D bucket Far-end eye heigh, differential (min) is TBD.							
Don't tr	y to micro-mana	ge the module.			See hidaka_3ck_01_0720, slide 7.							
Proposed R	Response	Response Status W			SuggestedRemedy							
PROPC	DSED ACCEPT	N PRINCIPLE.			Change TBD to 24.							
!!! 2020/7/15 new response !!!						Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.						
Resolve	e using the respo	onse to comment #175.			Resolv	e usina the resp	onse to comment #177.					
C/ 120G	SC 120G.3.2	P 224	L 45	# 135	CI 420C	SC 420C 2 2	Dood	1 64	# 400			
Hidaka, Ya	suo	Credo Sem	iconductor			30 1206.3.2	F ZZ4		# 109			
Comment T	ype TR	Comment Status D		bucket3	Hidaka, Ya		Credo Sen	niconductor	hughest?			
Near-er See hid	nd eye height, di laka_3ck_01_07	fferential (min) is TBD. 20, slide 7.			Far-end VEC (max) should be specified.							
Suggested	Remedy				Suggested	Damadu	20, silde 0.					
Change	e TBD to 50.				Suggesteul To tabl	e 120G-3 add a	row of "Far-and vertical a	we closure (max)"	with a value of 7.0 dB			
Proposed R	lesponse	Response Status W			and a r	eference to 1200	G.3.2.1.	ye closure (max)				
PROPC	OSED ACCEPT	N PRINCIPLE.			Proposed F	Response	Response Status W					
Resolve using the response to comment #177.					PROPOSED ACCEPT IN PRINCIPLE.							
	- '				Resolv	e using the resp	onse to comment #177.					

C/ 120G SC 120G.3.2

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C/ 163	SC	163.9.1	P 1	77	L 38	# 205	
Ghiasi, Ali			Ghia	si Qu	antum/Inphi		
Comment Type TR			Comment Status	bucket3			
30 mV dB dep	AC co	ommon mo g on the los	de has significant and so of the channel the	moun e pen	nt of penalty given that alty can be 1-3 mV I	at RLCD ~RL RMS	.DC or 12
Suggested	IRemed	dy					
Consid	der red	ucing 30 m	V RMS to 17.5 mV	RMS			
Proposed	Respor	nse	Response Status	w			
PROP	OSED	REJECT.					
[Editor	's note	: changed	page from 148.]				
Resolv	/e using	g the respo	onse to comment #2	8.			
C/ 163	SC	163.9.1	P 1	77	L 38	# 54	
Mellitz, Rid	chard		Sam	ec			
Comment	Туре	TR	Comment Status	D			bucket3
30 mv	of AC	common-n	node RMS voltage	is too	severe. Little work h	nas been to ju	ustify this.
Suggested	IRemed	dy					
Set A mode	C comi determ	mon-mode iinistic volta	RMS voltage to TB age which essential	D.A y rep	dd a line to the table resents skew.	called AC c	ommon-
Proposed	Respor	nse	Response Status	w			

PROPOSED REJECT.

Resolve using the response to comment #28.

C/ 163 SC 163.9.1