

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

Cl **120F** SC **120.F.3.1** P **208** L **1** # **140**
 Ghiasi, Ali Ghiasi Quantum/Inphi
 Comment Type **T** Comment Status **D** TP0v (bucket2)
 Until it is proven TP0v with real measurement the electrical characteristics should be at TP0a, there is no need create all this confusion and complexity by introducing TP0v when the solution is trivial just increase the DUT board loss to 2.4 dB as we have done for MCB and HCB!
SuggestedRemedy
 Change TP0v to TP0a
 Proposed Response Response Status **W**
 PROPOSED REJECT.
 Resolve using the response to comment #135.
 [Editor's note: CC: 120F, 163]
 [Editor's note (to be removed when this comment is closed): Added to Bucket #2. Similar comment #135 was closed as REJECT. This comment should close as a consequence of closing comment #135.]

Cl **120F** SC **120F.3.2** P **211** L **32** # **14**
 Mellitz, Richard Samtec
 Comment Type **TR** Comment Status **D** TP5v (bucket2)
 TP5a is moot and replaced by TP5v
SuggestedRemedy
 point to Rx table in 163 line done in table 120F-1
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 Resolve using the response to comment #40.
 [Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl **163** SC **163.9.3** P **180** L **17** # **7**
 Mellitz, Richard Samtec
 Comment Type **TR** Comment Status **D** TP5v (bucket2)
 TP5a is moot and replaced by TP5v
SuggestedRemedy
 remove references to TP5a and replace with TP5v.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 Resolve using the response to comment #40.
 [Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl **163** SC **163.9.3.2** P **181** L **1** # **81**
 Brown, Matt Huawei
 Comment Type **T** Comment Status **D** RX test fixture (bucket2)
 In Draft 1.3, the transmitter test fixture specification (TP0 to TP0a) was replace with a new test fixture specification (TP0 to TP0v). The receiver test fixture should be rewritten to match the new transmitter test fixture specification.
SuggestedRemedy
 Align the receiver test fixture specification with the new transmitter test fixtures specification based upon slide 12 of the following presentation:
https://www.ieee802.org/3/ck/public/adhoc/sept16_20/brown_3ck_adhoc_01a_091620.pdf
 In 163 and 120F, replace all references to TP5a with TP5v.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 Resolve using the response to comment #40.
 [Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

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Cl 163 SC 163.9.3.2 P 181 L 1 # 9

Mellitz, Richard Samtec
 Comment Type TR Comment Status D RX test fixture (bucket2)

There is no reason why the receive test fixture specification should be different from the transmitter one.

SuggestedRemedy

Point to the transmitter specification for test fixture

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl 163 SC 163.9.3.2 P 181 L 3 # 68

Ran, Adeel Intel
 Comment Type T Comment Status D RX test fixture (bucket2)

Receiver test fixture defined here is not realistic (IL of 1.2-1.6 dB at 25.56 GHz). The test fixture specification should be similar to the transmitter's test fixture.

SuggestedRemedy

Change the receiver test fixture subclause (163.9.3.2) to match 163.9.2.1 or point to it.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl 163 SC 163.9.3.2 P 181 L 3 # 23

Ben-Artzi, Liav Marvell Semiconductor Ltd.
 Comment Type E Comment Status D TP5v [bucket2]

According to direction of the entire path, TP5a is the input to the test fixture and not the output

SuggestedRemedy

Change: "Unless otherwise noted, measurements of the receiver are made at the output of a test fixture (TP5a) as shown in Figure 163-5." to: "Unless otherwise noted, measurements of the receiver are made at the input of a test fixture (TP5a) as shown in Figure 163-5."

Proposed Response Response Status W

PROPOSED ACCEPT.

Closed comment #40 results in TP5a being updated to TP5v.

Implement the suggested remedy, except replace "TP5a" with "TP5v".

[Editor's note (to be removed when this comment is closed): The response of this comment was updated to reflect the response of comment #40. Since this comment appears to be non-controversial it has been added to bucket #2.]

Cl 163 SC 163.9.3.2 P 181 L 18 # 137

Ghiasi, Ali Ghiasi Quantum/Inphi
 Comment Type TR Comment Status D RX test fixture (bucket2)

Increase the loss from 1.2 dB and 1.6 dB

SuggestedRemedy

to 2.2 and 2.6 dB

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

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Cl 163 SC 163.9.3.2 P 181 L 19 # 24

Ben-Artzi, Liav Marvell Semiconductor Ltd.
 Comment Type T Comment Status D RX test fixture (bucket2)

The test fixture insertion loss of 1.2-1.6dB is not commonly feasible

SuggestedRemedy

Recommend adjusting TP5a-TP5 fixture characteristics to be the same as those defined for TP0-TP0a.
 Can either define less than 5dB of loss and ILD less than 0.2dB, or even in a simpler manner, just refer to 163.9.2.1.1 (insertion loss), 163.9.2.1.2 (ERL) and 163.9.2.1.3 (common mode RL)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl 163 SC 163.9.3.2 P 181 L 19 # 230

Dawe, Piers Nvidia
 Comment Type T Comment Status D RX test fixture (bucket2)

We agreed that a test fixture test fixture between 1.2 dB and 1.6 dB is not practical.

SuggestedRemedy

Make the receiver test fixture like the transmitter test fixture.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl 163 SC 163.9.3.2 P 181 L 26 # 193

Wu, Mau-Lin MediaTek
 Comment Type T Comment Status D RX test fixture (bucket2)

The sentence here is to define the "differential return loss" of the test fixture (TP5a) and refer to Equation (163-2) & Figure 163-6. However, the referred equation and figure are not correct.

The reason is that the original equation (Equation 163-2) & figure (Figure 163-4) in D1p2 had been removed from D1p3

SuggestedRemedy

Copy Equation 163-2 & Figure 163-4 in D1p2 & related description to D1p3. Put them in the appropriate location & correct the referred Equation ID & Figure ID.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl 163 SC 163.9.3.2 P 181 L 26 # 165

Dudek, Mike Marvell.
 Comment Type TR Comment Status D RX test fixture (bucket2)

Equation 163-2 and figure 163-6 are nothing to do with return loss. Also it would be better to use ERL as the parameter.

SuggestedRemedy

Change to match the Tx test fixture Replace the sentence referring to return loss with "The Receiver test fixture shall meet the specification for ERL in 163.9.2.1.2"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

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Cl 163 SC 163.9.3.2 P 181 L 26 # 25

Ben-Artzi, Liav

Marvell Semiconductor Ltd.

Comment Type T Comment Status D RX test fixture (bucket2)

The differential return loss of the test fixture is defined to meet Equation (163-2) and 163-3 which are an incorrect reference

SuggestedRemedy

Recommend replacing with a reference to 163.9.2.1.2 (Tx test fixture ERL)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]

Cl 163 SC 163.13.4.4 P 192 L 33 # 11

Mellitz, Richard

Samtec

Comment Type TR Comment Status D TP5v (bucket2)

TP5a is moot and replaced by TP5v

SuggestedRemedy

remove references to TP5a and replace with TP5v. Change RC2 to DERL at TP5v

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #40.

[Editor's note (to be removed when this comment is closed): This comment has been added to bucket #2. Related comment #40 was closed as and as a consequence this comment may be closed as written.]