STRADA WHISPER™ MEASURED BACKPLANE CHANNEL
[Supersedes previous contribution from April 1, 2011]

100Gb/s Backplane and Copper Cable Study Group

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SUMMARY

• This contribution provides measured data for revised TE Connectivity backplane channels
- • This replaces the previous contribution (link below) from April 1, 2011
  - Reference:http://www.ieee802.org/3/100GCU/public/mar11/shanbhag_01a_0311.pdf

• The STRADA Whisper^{TM} connector used in the tested channel has been updated to reflect the latest design
- • This design incorporates improved crosstalk performance.

• Please note that the channel measured differs slightly from the simulated channels (link below) contributed on April 28, 2011. Please use the corresponding reference document for more details on the channel set-up and/or assumptions.
- Reference:http://www.ieee802.org/3/100GCU/public/ChannelData/TEC_11_0428/shanbhag_03_0411.pdf

STRADA WHISPER™ BACKPLANE CHANNEL

27" Link Test Set-up
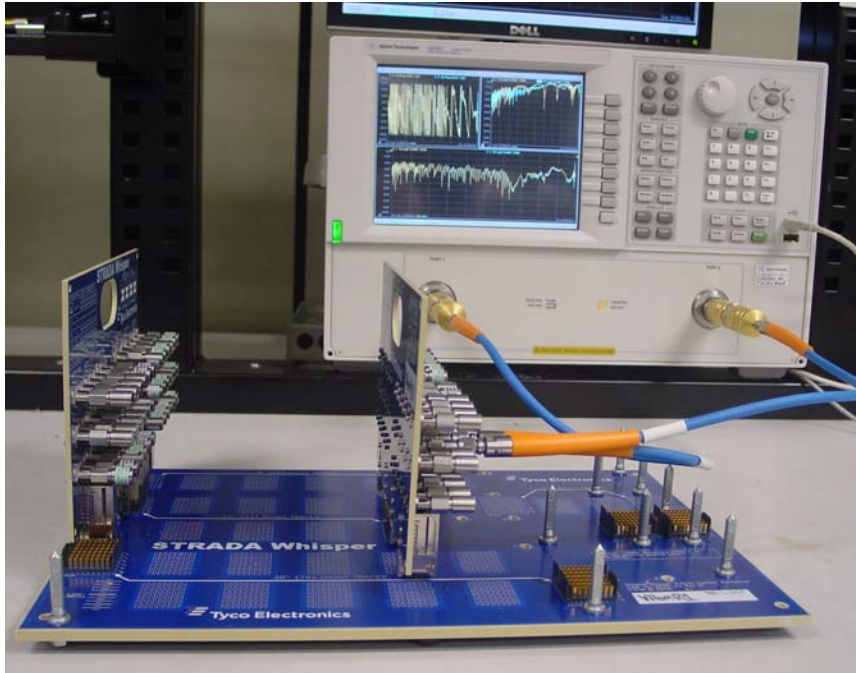
H14-H15   H11-H12

G14-G15   G11-G12

F14-F15   F11-F12

- All data is measured and includes test points
- Measurements are pair G14-G15 centric .s4p files
- Near End and Far End measurements for 5 aggressors
- Data is from 0-20GHz in 10MHz steps

DAUGHTER CARD
- Board Material = Megtron6 VLP
- Trace length = 5"
- Trace geometry = Stripline
- Trace width = 6 mils
- Differential trace spacing = 9 mils
- PCB thickness = 110mils, 14 layers
- Counterbored vias, 1 – 6mil stub
- Test Points = 2.4mm
  (included in data)

BACKPLANE
- Board Material = Megtron6 HVLP
- Trace length = 17"
- Trace geometry = Stripline
- Trace width = 8 mils
- Differential trace spacing = 13 mils
- PCB thickness = 200 mils, 20 layers
- Counterbored vias, 1 – 6mil stub