



### ONE METER MEASURED BACKPLANE CHANNEL DATA

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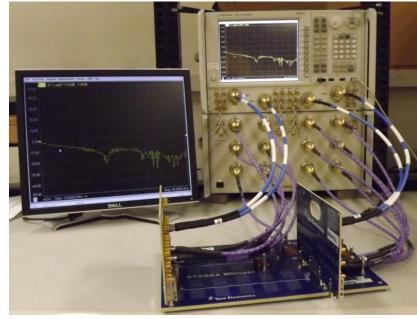
# SUMMARY

- This contribution provides measured data for TE Connectivity STRADA Whisper<sup>™</sup> backplane connectors/channels.
  - This design incorporates improved ILD, RL & noise response.
- The STRADA Whisper<sup>™</sup> connector used in the tested channel reflects the current tooled product.
- Data will be uploaded to the 802.3cd public channel data web site by July 29<sup>th</sup>.
- Please use the data for your simulations and provide feedback.



## STRADA Whisper<sup>TM</sup> Backplane Channel

### Test Set-up – G14G15 centric





All data is measured and includes 2.92mm test points

- 8 Near-End and 8 Far-End measurements
- Data is from 0-40GHz in 10MHz steps

#### DAUGHTER CARD

- Board Material = Megtron6 HVLP
- 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 = 2.92mm (included in data)

#### BACKPLANE

- Board Material = Megtron6 HVLP
- Trace length = 30" (1.75", 17" also avail.)
- Trace geometry = Stripline
- Trace width = 5.75 mils
- Differential trace spacing = 6.25 mils
- PCB thickness = 190 mils, 20 layers
- Counterbored vias, 1 6mil stub

#### **CONNECTORS**

• Mated standard STRADA Whisper connector at each end



# STRADA Whisper 3.9mm 40" System

