Minutes

Attendees:

CK Wong, FCI USA LLC
Pete Anslow, Ciena
Mike Dudek QLogic Corporation
Tom Palkert, Xilinx
Jeff Slavick - Avago Technologies
Rick Rabinovich Alcatel Lucent
Adam Healey LSI
Andre Szczepanek, Inphi
Richard Mellitz Intel
Charles Moore Avago Technologies
Megha Shanbhag TE Connectivity, Ltd.
Greg Lecheminant Agilent
Vinu Arumugham Cisco
John Petrilla Avago
Piers Dawe Mellanox

Minutes:
Call for patents
Reviewed Moore_01_073013_caui
- Highlighted opportunities to leverage KR4 in CAUI specifications
- Discussed transmitter spec changes in the context of not having a DFE Rx (KR4 D2.1 has exclusion of DDJ from TJ)
- COM simulations not able to provide 3dB margin assuming no DFE, 15dB channel, 12mm or 30mm packages on Tx and Rx
- This is in contrast with 15dB channel results reported previously where 15dB closed (presentations by Mike L, Ali G, Ryan L)
- This is also in contrast with previous work done in previous chip-to-module budgeting
- 10dB vs 15dB budget discussion: 10dB was selected to be in alignment with CR4 and OIF VSR (not due to doubts on technical feasibility)
- There should not be discrepancies if the same simulation assumptions are made
- Attached are Rich's channels for uploading to the CAUI-4 ad hoc page and use with other tools
- COM able to show ~4dB margin if the Rx package is removed
- Channel used in simulation does not have a connector
- Slide 17 top picture shows 5 tap DFE result with the first tap having the highest value (but is still less than 0.5)

Reviewed latchman_01_073013_caui
- Transmit jitter specification was in alignment with KR4 D2.1, but this requirement has been removed for D2.2
- Methodology for eye mask measurement discussed with relation to 83E methodology (look at modifying wording such that 3 measurements are made at X2, midpoint, and 1-X2)
- Transmit equalizer specification discussion
- Number of potential settings ranged from ~3 settings to 12 for pre and 6 for post
- Discussed specification in terms of tap coefficients vs. dB (dB will require translation to tap for use in COM)
- Transmit equalizer characterization using linear fit discussed vs VMA approach also discussed
- Linear fit being used in OIF as well as KR4

Next Call: Aug 6, 8am PT (dial in information will be sent shortly).