

Module TX eye measurement specification

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CDAUI-8 C2M Module output specification

- Spec updated to include the module TX pre-cursor component
 - Keep the measurement point same as before at the MCB output
 - Approx. 3.5-4dB loss
 - Define a 'near-end' eye and a 'far-end' eye
- Near-end eye
 - Represents the short length case
 - Measured and post processed as before
- Far-end eye
 - In the post processing phase, include a 'loss channel' to represent the remainder of the loss budget
 - Update the eye-spec such that the TX would have to provide the desired precursor component



Far-end eye: o/p measurement + post processing setup



- Component models adopted from Clause 92 & Annex 92A
- Total Loss:
 - 9.85dB @ 12.89GHz
- HCB-MCB Mated Pair:
 - TP3 to TP4
 - 3.59dB loss @ 12.8906 GHz
- Loss Channel (150mm long T-line):
 - 6.26dB loss at 12.8906GHz





Mated cable assembly and test point test fixture



Component Models Continued...

- Actual HCB-MCB Mated Pair characteristics:
 - Insertion loss is 5.8dB @13.2812GHz
 - ~1dB worse than MTF max (4.8dB)
- Loss Channel:
 - Representative receiver PCB path (TP4 to TP5)
 - Model provided in 92.10.7.1.1
 - ~4.2dB loss at 13.2812GHz for 95mm
 - Total worst-case loss modeled: ~10.0dB
- Adjust the loss channel length to compensate for HCB-MCB loss variation





Far-end eye parameters

| Parameter | Value |
|------------|--------|
| ESMW | |
| Eye Width | 180mUI |
| Eye Height | 25mV |



