

120E.3.2 CDAUI-8 module output characteristics:

The first sentence in this section will be changed to "A CDAUI-8 module output shall meet both near-end and far-end eye specifications defined in Table 120E-3 if measured at TP4."

In Table 120E-3, replace the ESMW, Eye Height, and Eye Width rows with the following rows:

Parameter	Reference	Value	Units
Near end <i>ESMW</i> (Eye Symmetry Mask Width)	120E4.2	.0.265	UI
Near end Eye Width (min)	120E4.2	0.325	UI
Near end Eye Height, differential (min)	120E4.2	0.09	V
Far end <i>ESMW</i> (Eye Symmetry Mask Width)	120E4.2	0.22	UI
Far end Eye Width (min)	120E4.2	0.25	UI
Far end Eye Height, differential (min)	120E4.2	0.03	V

120E.3.2.1.1 Reference receiver and loss-channel for module eye width and eye height evaluation

A reference receiver is used to measure module eye width and eye height. The reference receiver includes a selectable continuous time linear equalizer (CTLE) which is defined in 120E.3.1.6.1. The equalizer may be implemented in software; however, the measured signal is not averaged. *Delete the last sentence in this paragraph*

The following 2 subsections will be added

120E.3.2.1.1.1 Near-end eye

The near-end eye is measured with the reference receiver as specified in 120E.3.2.1.1. Equalizer settings corresponding to up to 3dB of peaking from Table 120E-2 may be used to meet the output eye width and height requirements.

120E.3.2.1.1.2 Far-end eye

For the far-end eye, the signal measured at TP4 is first convolved with a loss channel (~7.5dB loss at Nyquist/2) that represents the worst case channel loss. The coefficients of this loss channel, as a finite impulse response (FIR) filter over-sampled at 4X rate, are provided in Table XXX.XXX. The reference receiver is then used to measure the eye width and height. Any of the equalizer settings from Table 120E-2 may be used.

Table XXX.XXX: Coefficients of the loss-channel used to measure the far-end eye

Index	Coefficient Value	Index	Coefficient Value
0	0.001079252	32	9.48584E-05
1	0.018481258	33	9.00289E-05
2	0.012090116	34	8.55873E-05
3	0.006714962	35	8.1492E-05
4	0.004079862	36	7.77067E-05
5	0.002711326	37	7.42001E-05
6	0.001929856	38	7.09445E-05
7	0.001446054	39	6.79158E-05
8	0.001126732	40	6.50928E-05
9	0.000905036	41	6.24567E-05
10	0.000744764	42	5.99907E-05
11	0.000625022	43	5.76801E-05
12	0.000533099	44	5.55117E-05
13	0.000460908	45	5.34736E-05
14	0.000403111	46	5.15553E-05
15	0.000356066	47	4.97473E-05
16	0.000317221	48	4.80409E-05
17	0.000284742	49	4.64285E-05
18	0.000257286	50	4.4903E-05
19	0.000233846	51	4.34581E-05
20	0.000213661	52	4.2088E-05
21	0.000196141	53	4.07874E-05
22	0.000180827	54	3.95517E-05
23	0.000167355	55	3.83763E-05
24	0.000155433	56	3.72572E-05
25	0.000144827	57	3.61909E-05
26	0.000135346	58	3.51739E-05
27	0.00012683	59	3.42031E-05
28	0.000119151	60	3.32757E-05
29	0.000112199	61	3.2389E-05
30	0.000105882	62	3.15405E-05
31	0.000100124	63	3.07282E-05