

## 100G 10km, 20km &amp; 40km 4x25G NRZ WDM Optical Specifications Proposal, Draft 04

Specification	10km WDM4-10 w/ FEC 100G LR4 loss	20km WDM4-20 w/ FEC	40km WDM4-40 w/ FEC
Rate $\pm$ 100 ppm Gb/s	25.78125	25.78125	25.78125
Reach km (RX type)	10 (PIN)	20 (PIN)	40 (APD)
Electrical I/O (informative)	CAUI-4 (CL83E)	CAUI-4 (CL83E)	CAUI-4 (CL83E)
FEC	RS-528 (CL91)	RS-528 (CL91)	RS-528 (CL91)
BER (max)	5e-5 (CL91)	5e-5 (CL91)	5e-5 (CL91)
$\lambda$ Grid	CWDM (CL87)	LWDM (CL88)	LWDM (CL88)
ER dB (min)	3.5	4.0	4.5
TX OMA dBm (max)	2.5	4.5	6.5
Delta TX power any two lanes dB (max)	6	5	4
TX OMA dBm (min)	-4.0	-1.3	0.5
TDP (max) dB	3.0	2.3	2.5
TX OMA -TDP (min) dBm	-5.0	-2.3	-0.5
Loss Budget (max) dB	6.5	10.2	18
SRS OMA (max) dBm	-9.1	-10.7	-16.7
Rx Sens OMA (max) dBm	-11.5	-12.5	-18.5