

### Current Transceiver Specification (Power and Sensitivity)

Name	Power Budget (dB)	Transmitter Power (dBm)	Receiver Sensitivity (dBm)	Possible LD/PD Combination	Estimated Average OFE Cost
1000Base-PX10-D	21	-3 to +2	-24	Medium DFB/APD	1.5X
1000Base-PX10-U	23	-1 to +4	-24	High power FP/APD	X
1000Base-PX20-D	26	+2 to +7	-24	High power DFB/APD	1.7X
1000Base-PX20-U	26	-1 to +4	-27	High power FP/APD	X

Note: The cost will be 0.5X lower if the PIN is applied to replace the APD. But the yield will be an issue in volume production.

### Suggested Transceiver Specification (Power and Sensitivity)

Name	Power Budget (dB)	Transmitter Power (dBm)	Receiver Sensitivity (dBm)	Possible LD/PD Combination	Estimated OFE Average Cost
1000Base-PX10-D	21	-7 to -2	-28	DFB/APD	1.4X
1000Base-PX10-U	23	-5 to 0 (Same as ITU G.957 STM-16)	-28	FP/APD	0.85X
1000Base-PX20-D	26	-2 to +3 (Same as ITU G.957 STM-16)	-28	Medium power DFB/APD	1.5X
1000Base-PX20-U	26	-2 to +3	-28	Medium power FP/APD	0.9X

Note: The average cost saving will be about 0.15X for each transceiver, plus the power dissipation of the transmitter will be lower due to the lower driving current.