

# SRx-50 reaches over standard fiber, concerning comment 9

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In Table 300-9 the SRx-30 PMDs have separate columns for OM3, OM4, and OM5, but the SRx-50 PMDs only have a single column for OMz fiber.

**Table 300-9—Illustrative link power budget**

Parameter	200GBASE-SR1-30 400GBASE-SR2-30 800GBASE-SR4-30 1.6TBASE-SR8-30			200GBASE-SR1-50 400GBASE-SR2-50 800GBASE-SR4-50 1.6TBASE-SR8-50	Unit
	OM3	OM4	OM5	OMz	
Effective modal bandwidth at 850 nm <sup>a</sup>	2000	4700		—	MHz · km
Effective modal bandwidth at 860 nm <sup>b</sup>	—	—	—	5200	MHz · km
Power budget (for max TDECQ)	<i>TBD</i>			<i>TBD</i>	dB
Operating distance	0.5 to 15	0.5 to 30		0.5 to 50	m
Channel insertion loss <sup>c</sup>	1.6	1.6		1.7	dB
Allocation for penalties <sup>d</sup> (for max TDECQ)	<i>TBD</i>			<i>TBD</i>	dB
Additional insertion loss allowed	<i>TBD</i>	<i>TBD</i>		<i>TBD</i>	dB

<sup>a</sup> Per IEC 60793-2-10, see Table 300-11 for information on effective modal bandwidth at other wavelengths.

<sup>b</sup> Per IEC 60793-2-10, see Table 300-11 for information on effective modal bandwidth at other wavelengths.

<sup>c</sup> The channel insertion loss is calculated using the maximum distance specified in Table 300-6 and cabled optical fiber attenuation of 3 dB/km at 850 nm plus an allocation for connection and splice loss given in 300.8.2.

<sup>d</sup> Link penalties are used for link budget calculations. They are not requirements and are not meant to be tested.

Please add columns for SRx-50 for OM3, OM4, and OM5 showing the reach that would be supported for SRx-50 over these fiber types

Table 300–9—Illustrative link power budget

Parameter	200GBASE-SR1-30 400GBASE-SR2-30 800GBASE-SR4-30 1.6TBASE-SR8-30			200GBASE-SR1-50 400GBASE-SR2-50 800GBASE-SR4-50 1.6TBASE-SR8-50			Unit	
	OM3	OM4	OM5	OM3	OM4	OM5		OMz
Effective modal bandwidth at 850 nm <sup>a</sup>	2000	4700		2000	4700		-	MHz · km
Effective modal bandwidth at 860 nm <sup>b</sup>	—	—	—	1825	3850	4400	5200	MHz · km
Power budget (for max TDECQ)	TBD			TBD				dB
Operating distance	0.5 to 15	0.5 to 30		TBD			0.5 to 50	m
Channel insertion loss <sup>c</sup>	1.6	1.6		1.6	1.6	1.6	1.7	dB
Allocation for penalties <sup>d</sup> (for max TDECQ)	TBD			TBD				dB
Additional insertion loss allowed	TBD	TBD		TBD				dB

Note: EMB numbers at 860 are informative for OM3 and OM4 and normative for OM5

If those columns are added, those reaches should be added elsewhere in the draft