



OFA-2020-D, OFA-1720-D

Optical Fiber Amplifier for SABER 4400

The OFA-1720-D and OFA-2020-D sleds are extended temperature, low noise figure, dual EDFAs for use in the SABER 4400 shelf.

Features & Benefits

- + Dual EDFAs allow amplification in both directions
- + Hardened, extended temperature range from -40oC to +65oC.
- + Low noise figure
- + Support 96 channels in 50GHz ITU grid or equivalent in Flex Grid
- + Integrated Monitor, OSC and OTDR ports
- + Optional pluggable OTDR SFP+ for line segment analysis
- + Fast transient suppression
- + Low input power
- + Integrated Optical Shelf Manager (OSM) GUI

The OFA sleds deliver efficient, cost effective, reach extension in edge, metro and long haul applications. The Saber OFA sleds support the entire ITU C-band, with Optical Service Channel (OSC) ports, Monitor ports, and ports for connecting external Optical Time Domain Reflectometer (OTDR). The OFA-2020-D has an additional port to house an optional SFP+ OTDR pluggable module.

The OFA sleds are compact and only require a single slot in the SABER 4400 shelf; as such, up to 4 OFA sleds can be installed in the 1RU SABER 4400 chassis.

The OFA sleds are hardened and compliant with GR-3108 Class 2 extended temperature range of -40oC to +65oC.

Hardened

- + Support for extended temperature range
- + NEBS Level 3 and GR-3108 Class 2 compliance

Related Product Families

- + Scalable SABER 4400 platform
- + Saber TMX-440x family of Transponders and Muxponders, RDM-4400 2D ROADM sled, FOX-44XX family of Fiber Optical X-Connect and Add/Drop sleds, RMN amplifiers, and PPM-44XX family of path protection modules

Pluggable modules

- + Optional SFP+ OTDR for fiber health scans

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Product Specifications

Amplifier Sleds	OFA-1720-D	OFA-2020-D
Specification	Description	
Type	Single-stage	Single-stage
Input power range (dBm)	-30 to 0	-30 to 0
Maximum output power (dBm)	17	20
Gain setting range (dB)	10 to 25	10 to 25
Operating wave-length/frequency	1528.6 to 1566.9 nm (196.1 to 191.14 THz)	
Gain flatness peak — peak (maximum)(dB)	1.8	
Noise figure (dB)	5.7 typical, 6.2 maximum	
Return loss, (dB)	40	
OSC Wavelength, (nm)	1500 to 1520	
OTDR Wavelength (nm)	1601 to 1621	
PDL (dB)	0.5	
PMD(ps)	0.3	
Power consumption (W)	25 typical, 40 maximum	
Environmental and Compliances		
Operating temperature	-40°C to 65°C (23°F to 131°F) when deployed in SABER 4400 platform	
Operating humidity	5% to 95% relative humidity, non-condensing	
Compliances	NEBS Level 3, GR 3108 Class 2 when deployed in SABER 4400 platform	

Ordering Information

Model	Part Number	Description
OFA-2020-D	1015-6631	OFA-2020, Dual EDFA for Saber, 20dB gain 20dBm max power
OFA-1720-D	1015-6629	OFA-1720, Dual EDFA for Saber, 20dB gain 17dBm max power
OTDR-6000	1006-4202	SFP+, OTDR, 128 km, 1611 nm



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