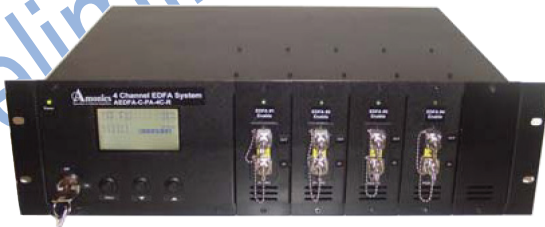


Multi-Channel EDFA System

The Optilab Multi-Channel EDFA System is designed for various applications including telecom and test and measurement. Up to eight EDFAs are incorporated into a single unit to simplify operation.

EDFA-MC Multi-Channel EDFA System



Product Description

The Optilab Multi-Channel EDFA System is designed for various applications including telecom and test and measurement. Up to eight EDFAs are incorporated into a single unit to simplify operation and each EDFA can be independently controlled via the front panel control interface or Labview. The system can be built with either booster or in-line configured EDFAs, depending on user requirements. The system is constructed with environmentally sealed laser diodes to ensure long-term reliability and system conformance. The micro-controller based unit features a backlit LCD display and RS232 interface for remote operation.

Features

- Up to 8 independent EDFA channel
- PC-based Labview control software
- Low Noise Figure
- High Reliability and Durability
- Three Year Limited Warranty

Applications

- Telecom
- LIDAR
- Optical Signal Processing
- Test and Measurement

PRODUCT SPECIFICATIONS

Optical Specifications

Operating Range	1528 nm to 1565 nm
Output Power Levels	Booster, +15 dBm min., In-line, +17 dBm min.
Input Signal Level	Booster, -8 to +8 dBm, In-line, -30 dBm to 0 dBm
Optical Gain	Bstr., 22 dB min. @ -8 dBm Inline, 27 dB typ. @ -30 dBm
Noise Figure (NF)	Booster., 5.5 dB typ. In-line, 5.0 dB typ.
Number of Channels	2 to 5 (with LCD display); 6 to 8 (without LCD display)
Optical Return Loss	50 dB min.
Input/Output Isolation	30 dB min.
Polarization Mode Dispersion	0.1 ps max.
Polarization Dependent Gain	0.3 dB max.
Output Power Stability	0.2 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28

Mechanical Specifications

Operating Temperature	0° C to +50° C
Storage Temperature	-10° C to +70° C
Power Supply Req.	80 - 240 V, 43 - 63 Hz AC
Power Consumption	120 W max.
Control	Channel Select, Pump Current, Output Power
Monitoring	Channel, Input Power, Output Power, Loss of Signal
Display	Channel, Input/Output Power, Pump Current
Alarms	Temperature and Current Threshold
Optical Connectors	FC/APC or Custom
Housing Dimensions	3U 19" x 14" x 5.5"
Housing	Steel Frame

Ordering Information

EDFA-MC-xx-yy-zz-R

xx	Type: B, booster; I, in-line
y	Number of Channels; 2, 3, 4, 5, 6, 7, 8
zz	Connector Type; FC, FC/UPC; FA, FC/APC SC, SC/UPC; SA, SC/APC



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