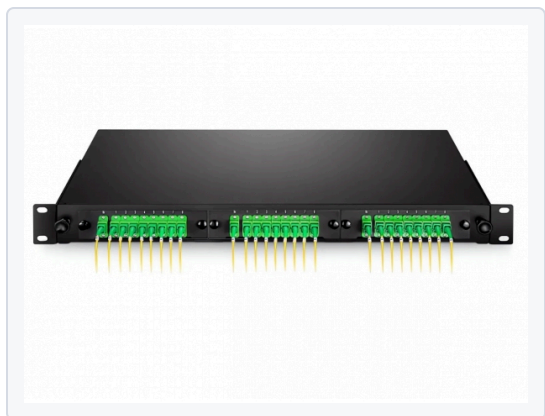


ERBIUM-DOPED FIBER AMPLIFIERS

EDFA Booster Amplifier

Erbium-doped fiber booster amplifier accepting -10 to 0 dBm input, powered from 12 V.



Key Features

- Optical amplification with no optical-electrical-optical conversion
- Input power range -10 dBm to 0 dBm
- Transparent to modulation format and data rate
- Operates from a 12 V supply
- Available integrated into our rack-mount optical switch

Applications

- Transmitter-side launch power boost
- Loss compensation ahead of a long span
- DWDM system power budget recovery
- Optical switch and ROADM insertion loss compensation

Overview

A booster amplifier sits immediately after the transmitter and raises launch power before the signal enters the span. Amplification happens in erbium-doped fiber, entirely in the optical domain, so the amplifier is transparent to modulation format and data rate.

The module accepts input between -10 dBm and 0 dBm, which covers the output range of typical transmitters and multiplexer stages, and runs from a 12 V, 3 A supply.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT
Input Power	-10 to 0	dBm
Insertion Loss	$0.1 - 0.2$	dB

Electrical

PARAMETER	VALUE
Power Supply	12 V / 3 A

NOTES

1. Gain, output power and noise figure are set by the configuration ordered. Contact sales for the operating point you need.

Order or request a quote

+1 (619) 500-4899 · sales@lightwitphotonics.com

lightwitphotonics.com

Monday–Friday, 8:00 AM – 6:00 PM Pacific

Lightwit Photonics Co., Ltd.

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Specifications are subject to change without notice and do not constitute a warranty. Confirm all parameters with Lightwit Photonics sales before ordering.