

# Fx-BV16145

VERY HIGH POWER OPTICAL AMPLIFIER FOR 1550 NM



## Application

- ▶ Amplification of 1550 nm optical signals on single mode fibers
- ▶ Video overlay in FTTH networks
- ▶ CATV networks
- ▶ Input and output monitors
- ▶ Dual, hot-plug-in power supply modules for 100 ... 240 VAC  
±36 ... ±72 VDC  
23.5 ... 24.5 VDC

## Features

- ▶ Output powers of 16 x 14.5 dBm
- ▶ Cladding-pumped ErYb-doped fiber amplifier technology
- ▶ 980 nm pump laser diodes
- ▶ Constant output power control
- ▶ Ethernet - Web and -SNMP Interface (a-Version)
- ▶ RS232/RS485 control interface (b-Version)
- ▶ LC display
- ▶ General purpose I/O interface for remote functions
- ▶ LED status indication
- ▶ Very thin design, only 1 HU

## Technical Data

### General

Input signal wavelength	[nm]	1545 - 1565
Opt. Output Power	[dBm]	16 x 14.5 ± 0.5
Wavelength of pump lasers (typ.)	[nm]	< 1000 nm
Optical return loss	[dB]	>45
Min. optical input level	[dBm]	-5
Max. opt. input level	[dBm]	+10
Polarization dependent gain	[dB]	0.5
Noise figure (@Pin=0dBm, λ=1550nm)	[dB]	<5.5
Optical isolation @ input	[dB]	35
Optical isolation @ output	[dB]	35

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**Electrical and Mechanical Properties**


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Optical Connector	Any type of high return loss connector
Optical fiber	standard singlemode 9/125 μm
Climatic Specification	
Operation	ETS 300 019, class 3.1
Storage	ETS 300 019, class 1.2
EMI	EN50083-2 (April 1996) EN50083-2 /A1 (February 1998)
Power Supply	100 ... 240 VAC
Dual redundant, hot pluggable	±36 ... ±72 VDC 23.5 ... 24.5 VDC
Enclosure	19" / 1 HU