

EDFA Optribution® Amplifier Chassis



The final product may vary from the above image depending on the options selected.

Products:

DEV 7161/Boost	EDFA Boost Amplifier; 1529...1565 nm; SC/APC
DEV 7161/Pre	EDFA Pre Amplifier; 1529...1565 nm; SC/APC
DEV 7162	1:8 EDFA Distribution Boost Amplifier; 1529...1565 nm; SC/APC
DEV 7163	2*1:8 EDFA Distribution Boost Amplifier; 1529...1565 nm; SC/APC
DEV 7165	1:16 EDFA Distribution Boost Amplifier; 1529...1565 nm; SC/APC

Features:

- 1 RU Chassis with EDFA Pre- or Boost-Amplifier(s) with 1, 8, 2*8, or 16 Outputs
- High Gain and low Noise Figure EDFA Amplifiers
- Automatic Output Power Control (APC) Operation Mode
- Monitoring of Input and Output Optical Power Level
- Front Panel Status and Alarm LEDs
- SNMP Support
- DEV Web Interface
- Data Backup Feature
- Power Supply Redundancy

Technical Data DEV 7161/Boost, DEV 7161/Pre, DEV 7162, DEV 7163, DEV 7165

	Value	Condition
Common Optical Specifications		
Optical Connectors	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Fiber Type	Single Mode 9/125 μm	
Wavelength	1529...1565 nm	
Output Level Accuracy	±1 dB	
Remote Communication		
Interface (Connector)	Ethernet (RJ-45)	
Remote Control & Surveillance	via Web Interface and via SNMP	
Redundant Power Supply		
Supply Voltage	100...240 V AC supplied by two different Lines	
Power Consumption	<80 VA	
General Specifications		
Size	19" (483 mm) Width, 1 RU (44 mm) Height, ~340 mm + max. 80 mm (Optical Connectors) Depth	
Weight	~9 kg	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

DEV 7161/Boost EDFA Boost Amplifier; 1529...1565 nm; SC/APC

	Value	Condition
Chassis Optical Specifications		
Number of Optical Inputs	1	
Number of Optical Outputs	1	
Operation Mode	Automatic Output Power Control (APC)	
Input Power Range	-3...+10 dBm	
Max. Gain	23 dB	
Adjustable Output Power	0...+20 dBm, Step Size 1 dB	
Saturated Output Power	+20 dBm	
Return Loss	>45 dB	
Noise Figure	<5.5 dB, typ. 5 dB	

DEV 7161/Pre EDFA Pre Amplifier; 1529...1565 nm; SC/APC

	Value	Condition
Chassis Optical Specifications		
Number of Optical Inputs	1	
Number of Optical Outputs	1	
Operation Mode	Automatic Output Power Control (APC)	
Input Power Range	-25...-5 dBm	
Max. Gain	25 dB, typ. 27 dB (averaged)	
Adjustable Output Power	0...+10 dBm, Step Size 1 dB	
Saturated Output Power	+10 dBm	Input Power ≥ -15 dBm
Return Loss	>35 dB	
Noise Figure	<5.5 dB, typ. 4.7 dB	

DEV 7162 1:8 EDFA Distribution Boost Amplifier; 1529...1565 nm; SC/APC

	Value	Condition
Chassis Optical Specifications		
Number of Optical Inputs	1	
Number of Optical Outputs	8	
Operation Mode	Automatic Output Power Control (APC)	
Input Power Range	-3...+10 dBm	
Adjustable Output Power	-12...+8 dBm, Step Size 1 dB	
Saturated Output Power	+8 dBm	
Input Return Loss	>45 dB	
Output Return Loss	55 dB	
Noise Figure	<5.5 dB, typ. 5 dB	

DEV 7163 2*1:8 EDFA Distribution Boost Amplifier; 1529...1565 nm; SC/APC

	Value	Condition
Chassis Optical Specifications		
Number of Optical Inputs	2 * 1	
Number of Optical Outputs	2 * 8	
Operation Mode	Automatic Output Power Control (APC)	Note 1
Input Power Range	-3...+10 dBm	Note 1
Adjustable Output Power	-12...+8 dBm, Step Size 1 dB	Note 1
Saturated Output Power	+8 dBm	Note 1
Input Return Loss	>45 dB	Note 1
Output Return Loss	55 dB	Note 1
Noise Figure	<5.5 dB, typ. 5 dB	Note 1

Note 1: per EDFA channel

DEV 7165 1:16 EDFA Distribution Boost Amplifier; 1529...1565 nm; SC/APC

	Value	Condition
Chassis Optical Specifications		
Number of Optical Inputs	1	
Number of Optical Outputs	16	
Operation Mode	Automatic Output Power Control (APC)	
Input Power Range	-3...+10 dBm	
Adjustable Output Power	-17...+3 dBm, Step Size 1 dB	
Saturated Output Power	+3 dBm	
Input Return Loss	>45 dB	
Output Return Loss	55 dB	
Noise Figure	<5.5 dB, typ. 5 dB	



OPTRIBUTION®

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Order Information

Products

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Optical Connector Options

Option 07	FC/APC Optical Connector
Option 08	E2000/HRL Optical Connector

Contact

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Technical specifications are subject to change