FG- EDFA 16

EDFA with WDM, High Power – 1540nm

.

FEATURES

※ Standard 19-inch 2U Rack

※ 16 output ports with WDM

※ Output powers range from 16*16, 16*19, 16*23dBm

※ Output optical power adjustable -3~0dB

※ Wide input dynamic range (0 to +10dBm)

※ High Isolation input & output (30dB for max)

※ Web browser management

※ Automatic Power Control (APC) or Automatic Current Control (ACC)

※ LCD front panel display for local monitor

※ Remote management via SNMP (Ethernet Interface)

Description

The FG-EDFA Series, Erbium Doped Fiber Amplifiers (EDFA) is designed for use in CATV, FTTx and HFC (Hybrid Fiber -Coaxial) application. It is optimized for 1550nm wavelength and is packaged in a 2U 19” rack housing. The product offering is flexible enough to perform all the requirements of CATV, FTTx and HFC applications. The device chooses a high-performance PUMP laser and circuit (include ACC and APC) and optical output power is adjustable and flexible for network link loss budget. The FG-EDFA series also provide monitors and associated alarms for all vital characteristics. The status and management of the device can be monitored and managed either from the VFD front panel display or remotely via Ethernet based-SNMP. The device also supports multiple output by build-in PLC splitter and FWDM (1310nm/1490nm) optical multiplexer for Triple-play FTTx network applications.

SPECIFICATIONS

Technical Parameters			
Description	**UNIT**	**Value**	**Conditions / Notes**
Fiber Connector	nm	TV input: 1550nm	OLT:1310/1490nm SC/UPC
	nm	CON:1550/1490/1310nm	
	nm	SC/APC	
Optical Wavelength	nm	1540 ~ 1560	
Input Power	dBm	0 ~ +10 (1550nm)	Recommended > 3dBm
Output Power	dBm	FG-EDFA 16A – 19dBm	
	dBm	FG-EDFA 16B – 23dBm	
Laser Bias Current	Pump	16*19dB 3300mA±200mA @6dBm input	Alarm range: Out of 1000mA-3300mA
Laser Bias Current	Pump	16*23dB 3300mA±200mA @6dBm input	Alarm range: Out of 1800mA-4600mA
Output Optical Power	dB	0.1	@+6dBm input
Noise Figure	dB	4 (Max 5.8)	@+6dBm input
Isolation (Input / Output)	dB	30	
Return Loss (Input / Output)	dB	55	
Polarization Mode Dispersion	ps	Max 0.5	
Polarization Dependent Gain	dB	Max 0.5	
Communication Interface		RJ45	Supporting Web & SNMP NMS
Input Voltage	VAC	90-265	+12/ -48 V DC (Optional)
Consumption	W	50 ~ 100 W	19 dB ~ 23 dB
Operating Temperature	C°	-5° ~ 50°	
Storage Temperature	C°	-20° ~ 85°	
Storage Humidity	RH%	<95	No Condensation
Dimension (LxWxH)	mm	483 * 422 * 88	Carton: 590*590*200

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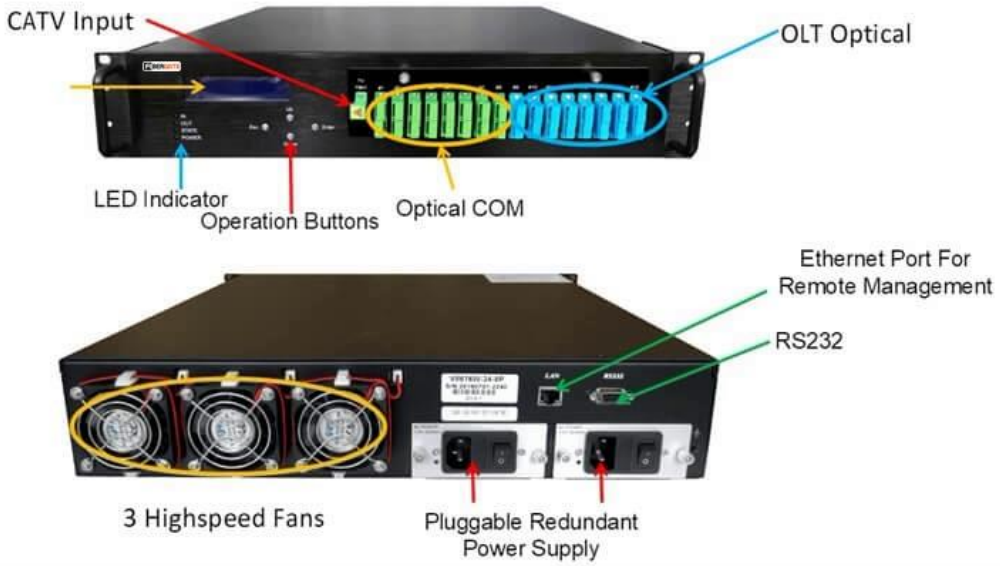
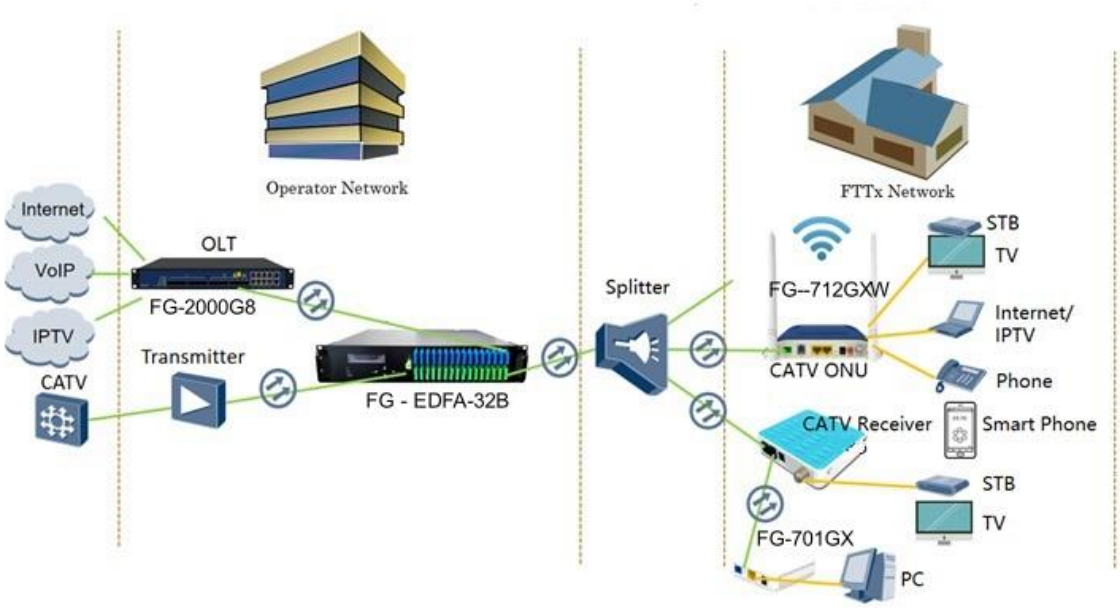

CATV Input
OLT Optical
LED Indicator
Operation Buttons
Optical COM
Ethernet Port For
Remote Management
RS232
3 Highspeed Fans
Pluggable Redundant
Power Supply


Operator Network
FTTx Network
Internet
VoIP
IPTV
CATV
OLT
FG-2000G8
Transmitter
FG - EDFA-32B
Splitter
FG--712GXW
CATV ONU
STB
TV
Internet/
IPTV
Phone
CATV Receiver
Smart Phone
STB
TV
FG-701GX
PC