Erbium Doped Fiber Amplifier
AGB/CGB/EFA-V Series, CATV EDFA

Features

- Wide operating wavelength range
- Different pump options giving saturated output power up to 25dBm
- Exceptionally low noise figure
- Optimum CNR/CSO for AM-VSB CATV transmission
- Input and output signal monitoring
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections.
- Front panel LCD display or status LED indicators for quick access of unit's status
- RS-232 or Ethernet interface for remote supervision.
- Redundant dual power supply
- Options for rapid gain control and transient suppression.

Applications

- PON network systems
- CATV/Hybrid Fiber Coaxial (HFC) network systems
- Low noise power booster for transport systems

Description

GIP Technology V-series Erbium-Doped Fiber Amplifiers (EDFAs) are mainly designed for use in the CATV transmission systems. The V-series utilizes the highly reliable optical components and the unique design to achieve the lowest noise figure and gain tilt for ensuring the minimal degradation of the CNR and CSO.

The flexible package size (compact, and rack-mounted) provides solutions for multiple applications and serving area sizes.

This series is available in a variety of packaging choices, ranging from the gain block module, stand-alone desktop, to rack-mounted in an EIA 19" or 23" rack. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces.

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Specifications

Optical Information		Unit	Description		
			AGB-V	CGB-V	EFA-V
Operating wavelength range		nm	1540 ~ 1560		
Input power range	Max.	dBm	-5 ~ +10		
Saturated output power*1	Max.	dBm	25	25	25
Noise figure	Typ.	dB	5 (@Pin=0dBm); 6 (@Pin=+6dBm)		
Polarization dependent gain	Max.	dB	0.3		
Polarization mode dispersion	Max.	ps	0.3		
Return loss	Min.	dB	45		
Fiber type			SMF-28, 900 μm loose tube		-
Fiber length*2		m	1.0		-
Connector			FC or SC		
Electrical Information					
Operating voltage		V		+5V	-48VDC and 100~240 VAC
Pump LD ON/OFF switch			-		Key type
Power consumption	Typ.	W	-	30	40
Control interface			30-pins Connector	RS232	RS232 & SNMP
Environmental and Mechanical Information					
Operating temperature		°C	0 ~ 70 (Case)	0 ~ 65 (Case)	0 ~ 50
Storage temperature		°C	-20~80		
Relative humidity (non-condense)		%	5~85		
Dimension (W x L x H)		mm	80 x 120 x 16	85 x 200 x 18	19” or 23”

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

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Erbium Doped Fiber Amplifier
EFA-T Series (Combo Amplifier)

Features

- Intermediate/Long distance extension
- Input and output signal monitoring
- Front panel LCD display or status LED indicators for quick access of unit's status
- RS-232 and Ethernet interface for local and remote supervision
- Redundant dual power supply

Applications

- Wavelength conversion and distance extension
- Metropolitan WAN network
- High speed network

Description

GIP Technology Combo Amplifiers, Erbium-Doped Fiber Amplifiers plus Fiber Extender, are specially designed for wavelength conversion and distance extension on single mode fiber (SMF). This series can receive the 100M~2.7G signals ranging from 1260 to 1620nm and convert/amplify to the Specified DWDM-ITU wavelength. This series incorporates a special, unique, and flexible structure to produce stable output power and low noise. Through optimization of these important amplifier parameters, this module will be easily deployed into any of high-quality telecommunication platforms.

This model is offered as C-band version in the booster configuration.

The compact stand-alone type, it not only can be embedded in the EIA 19 and 23-inch cabinet rack, but also can be placed on the desk.

In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232 and SNMP).

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Specifications (100M ~ 2.7G)

Optical Information		Unit	Description
Output			
Operating wavelength		nm	1530 ~ 1560, ITU grid
Channel spacing		Hz	100G
Bit rate	Typ.	bps	100M ~ 2.7G
Saturated output power*1		dBm	13 ~ 17
Spectrum width (@-20dB width)	Max.	nm	0.3
Extinction ratio	Min.	dB	8.2
Dispersion tolerance*2	Typ.	ps/nm	720 ~ 3600
Dispersion penalty	Max.	dB	3
Fiber type			Single mode
Connector			SC or FC
Input			
Operating wavelength		nm	1260 ~ 1620
Input power*3		dBm	-13 ~ +2
Bit rate	Typ.	bps	100M ~ 2.7G
Fiber type			Single mode
Connector			SC or FC
Electrical Information			
Power supply voltage		Volt	-48 Vdc and 100 ~ 240 Vac
Fan		pcs	2
Pump LD ON/OFF switch			Key type
Power consumption	Typ.	W	10
Environmental Information			
Operating temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condensing)		%	5 ~ 85
Outline Information			
Dimension			19” and 23”

*1: Saturated power is composed of optical signal and ASE power.

*2: Measured at G.652 SMF.

*3: Measured with PRBS 2^{23} –1 at 10^{-10} BER.

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Specifications (10G)

Optical Information		Unit	Description
Output			
Operating wavelength		nm	1530 ~ 1560, ITU grid
Channel spacing		Hz	100G
Bit rate	Typ.	Gbps	9.95 ~ 11.1
Saturated output power*1		dBm	13
Spectrum width (@-20dB width)	Max.	nm	1.0
Extinction ratio	Min.	dB	8.2
Transmission distance*1,2	Typ.	Km	80
Dispersion penalty*1,2	Max.	dB	3.0
Fiber type			Single mode
Connector			SC or FC
Input			
Operating wavelength		nm	1260 ~ 1620
Input power*1,2		dBm	- 13 ~ -2
Bit rate	Typ.	Gbps	9.95 ~ 11.1
Fiber type			Single mode
Connector			SC or FC
Electrical Information			
Power supply voltage		Volt	-48 Vdc and 100 ~ 240 Vac
Fan		pcs	2
Pump LD ON/OFF switch			Key type
Power consumption	Typ.	W	10
Environmental Information			
Operating temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condensing)		%	5 ~ 85
Outline Information			
Dimension			19” and 23”

*1. Measured at BER=1x10^{-12}, at PRBS of 2^{31}-1, 9.95Gbps

*2. Measured at G.652 SMF

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Features

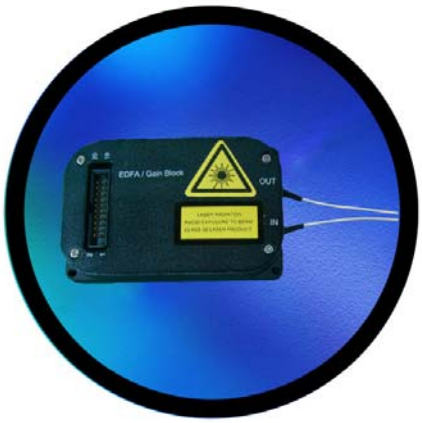
- Micro (40x64x12mm) or MSA (70x90x15mm) compact CGB size
- MSA (70x90x12mm) compact AGB size
- Wide operating wavelength range
- Connectorized single-mode fiber pigtail
- Exceptionally low noise figure
- Optically isolated input and output ports to maintain stable operation of both amplifier module and transmitter laser.
- +5.0 or +3.3 Vdc operating voltage
- Low power consumption

Applications

- Access, metro, and long-haul networks
- Single-channel and narrow-band networks
- Power compensation of OADM and OXC systems
- Booster and pre-amplifier amplification

Description

GIP Technology C-series Compact Controlled Gain Blocks and Active Gain Blocks (Compact CGBs and AGBs) are mainly designed for use in the rapidly growing metro market. Using simple optical configuration, this series exhibits extremely small size and low power dissipation over a wide operating temperature and wavelength range. This makes them especially suitable for systems requiring moderate gain (or power) in a restricted-space environment.



The low-profile package provides solutions for multiple applications and serving area sizes.

This model is offered as C-band (optional L-band) version in the booster or pre-amplifier configurations. The Compact AGB is only included the optical components and excluded the control circuit board. The CGBs provide standard compact onboard mountable package, which can be easily driven by 30-pin female or specified electric interface.

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Specifications

Optical Information		Unit	Description	
			Booster	***Pre***
Operating wavelength range		nm	1530 ~ 1560	
Input power range		dBm	-10 ~ +5	-30 ~ -10
Saturated output power*[1]	Max.	dBm	17	13
Signal gain	Typ.	dB	-	30
Noise figure	Max.	dB	5	5
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μm loose tube	
Fiber length*[2]		m	1.0	
Connector			SC or FC	
Electrical Information				
Operating voltage*[3]		Vdc	+3.3	
Power consumption	Typ.	W	1	
Control interface			RS232	
Connector type			Female with 2 x 3 pins	
Environmental Information				
Operating case temperature		°C	0 ~ 65	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension (W x L x H)		mm	40 x 64 x 12	

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

*3: +5.0 Vdc also available by request.

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Specification

Optical Information		Unit	Description	
			Booster	***Pre***
Operating wavelength range		nm	1528 ~ 1562	
Input power range		dBm	-10 ~ +10	-30 ~ -10
Saturated output power*[1]	Max.	dBm	21	13
Signal gain	Typ.	dB	25	30
Noise figure	Max.	dB	6	5.5
Input/Output monitor responsitivity range		mA/W	5 ~ 20	
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μm loose tube	
Fiber length*[2]		m	1.0	
Connector			SC or FC	
Electrical Information				
Operating laser forward current (@Pout=+13 dBm)	Max.	mA	320	
Operating laser forward voltage (@Pout=+13 dBm)	Max.	V	2.5	
Connector type			Male 20 pins	
Environmental Information				
Operating case temperature		°C	-5 ~ 70	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension (W x L x H)		mm	70 x 90 x 12	

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

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Specification

Optical Information		Unit	Description	
			Booster	***Pre***
Operating wavelength range		nm	1528 ~ 1563	
Input power range		dBm	-10 ~ +10	-30 ~ -10
Saturated output power*[1]	Max.	dBm	21	13
Signal gain	Typ.	dB	17	30
Noise figure	Max.	dB	6	5.5
Gain flatness	Typ.	dB	1.5	
Input/Output monitor responsitivity range		mA/W	5~ 20	
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μ m loose tube	
Fiber length*[2]		m	1.0	
Connector			SC or FC	
Electrical Information				
Operating laser forward current (@Pout=+13 dBm)	Max.	mA	320	
Operating laser forward voltage (@Pout=+13 dBm)	Max.	V	2.5	
Connector type			Male 20 pins	
Environmental Information				
Operating case temperature		°C	-5 ~ 70	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension (W x L x H)		mm	70 x 90 x 12	

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

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Specification

Optical Information		Unit	Description	
			Booster	***Pre***
Operating wavelength range		nm	1528 ~ 1562	
Input power range		dBm	-10 ~ +10	-30 ~ -10
Saturated output power*[1]	Max.	dBm	21	13
Signal gain	Typ.	dB	25	30
Noise figure	Max.	dB	6	5.5
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μm loose tube	
Fiber length*[2]		m	1.0	
Connector			SC or FC	
Electrical Information				
Operating voltage*[3]		Vdc	+3.3	
Power consumption	Typ.	W	6	
Analog monitor			Input/Output power	
Alarms			Loss of input/Output power, Pump bias, Temperature	
Control interface			RS232	
Connector type			Female 30 pins	
Environmental Information				
Operating case temperature		°C	-5 ~ 70	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension (W x L x H)		mm	70 x 90 x 15	

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

*3: +5.0 Vdc also available by request.

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Specification

Optical Information		Unit	Description	
			Booster	***Pre***
Operating wavelength range		nm	1528 ~ 1563	
Input power range		dBm	-10 ~ +10	-30 ~ -10
Saturated output power*[1]	Max.	dBm	21	13
Signal gain	Typ.	dB	17	30
Noise figure	Max.	dB	6	5.5
Gain flatness	Typ.	dB	1.5	
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μm loose tube	
Fiber length*[2]		m	1.0	
Connector			SC or FC	
Electrical Information				
Operating voltage*[3]		Vdc	+3.3	
Power consumption	Max.	W	6	
Analog monitor			Input/Output power	
Alarms			Loss of input/Output power, Pump bias, Temperature	
Control interface			RS232	
Connector type			Female 30 pins	
Environmental Information				
Operating case temperature		°C	-5 ~ 70	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension (W x L x H)		mm	70 x 90 x 15	

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

*3: +5.0 Vdc also available by request.

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Erbium Doped Fiber Amplifier
EFA-W Series, DWDM C-band EDFA

Features

- Bit-rate transparency
- Extremely flat gain and low noise profile
- Highly accurate automatic gain control (AGC) capability
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- Input and output signal monitoring
- Front panel LCD display and status LED indicators for quick access of unit's status
- RS-232 or Ethernet interface for remote supervision.
- Options for transient suppression function
- Redundant dual power supply

Applications

- DWDM network systems
- SAN applications
- Metropolitan WAN network systems
- Long-Haul transport systems

Description

GIP Technology W-series Erbium Doped Fiber Amplifiers (EDFAs) are gain-flattened and low noise, especially designed for dynamic DWDM optical networking systems. They operate in the conventional C-band (1530~1563nm). Packaged in a rack-mounted chassis, These series incorporate many flexible and special characteristics such as different amplifier configurations (booster, inline, and pre), automatic gain control (AGC), and widely variable gain range to simplify network designs. In addition, we also provide options for transient suppression to further maintain system performance as the wavelength numbers fluctuate.

The compact rack-mounted unit serves the area size. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS-232 and SNMP).

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Specifications

Optical Information		Unit	Description		
			Booster	In-line	Pre
Control mode			AGC		
Operating wavelength range		nm	1530~1563		
Input power range		dBm	-10 ~ +10	-20 ~ 0	-30 -10
Saturated output power*[1]	Max.	dBm	24	24	17
Signal gain	Typ.	dB	20	30	30
Noise figure	Typ.	dB	6.5	6.0	5.5
Gain flatness	Max.	dB	± 0.75		
Polarization dependent gain	Max.	dB	0.5		
Polarization mode dispersion	Max.	ps	0.5		
Return loss	Min.	dB	45		
Connector			SC or FC		
Electrical Information					
Operating voltage		Volt	-48VDC and 100~240 VAC		
Pump LD ON/OFF switch			Key type		
Control interface			RS232 & SNMP		
Power consumption	Typ.	W	35		
Environmental and Mechanical Information					
Operating temperature		°C	0 ~ 50		
Storage temperature		°C	-20 ~ 80		
Relative humidity (non-condense)		%	5 ~ 85		
Dimension		mm	19” or 23”		

*1: Saturated power is composed of optical signal and ASE power.

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Erbium Doped Fiber Amplifier
AGB/CGB/EFA-H Series, High-Power EDFA

Features

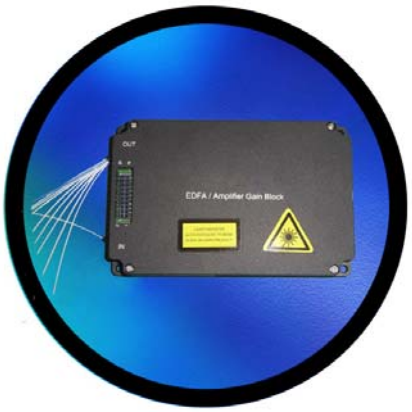
- High saturated output power up to 36dBm
- Wide operating wavelength range
- Exceptionally low noise figure
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- Input and output signal monitoring
- Front panel LCD display and status LED indicators for quick access of unit's status
- RS-232 or Ethernet interface for remote supervision.

Applications

- Analog and digital CATV transmission systems
- PON systems
- Long-haul transmission systems
- Instrumentation

Description

GIP Technology H-series Erbium-Doped Fiber Amplifiers (EDFAs) are mainly designed for use in the distribution systems such as the CATV or PON to compensate the big branching loss. The H-series utilizes the highly reliable optical components and the unique design to achieve the extremely highly saturated output power.



This series is available in a variety of packaging choices, ranging from the gain block module, stand-alone desktop, to 2U rack-mounted in an EIA 19" or 23" rack. The flexible package size provides solutions for multiple applications and serving area. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces.

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Specification

Optical Information		Unit	Description	
			CGB-H	EFA-H
Operating wavelength range		nm	1545 ~ 1562	
Input power range	Max.	dBm	-10 ~ +10	
Number of output ports			1, 4, 8, 16, 32	
Total saturated output power*1,2	Max.	dBm	Up to 36	
Noise figure	Typ.	dB	5.5	
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μm loose tube	
Fiber length*3		m	1.0	
Connector			FC or SC	
Electrical Information				
Operating voltage		Volt	+5, +12 VDC	100~240 VAC
Control interface			RS232	RS232 & SNMP
Environmental Information				
Operating temperature		°C	0 ~ 60 (case)	0 ~ 45
Storage temperature		°C	-20~80	
Relative humidity (non-condense)		%	5~85	
Outline Information				
Dimension (W x L x H)		mm	70 x 90 x 23 (8 ports) 135 x 185 x 30	19” or 23”

*1: Saturated power is composed of optical signal and ASE power.

*2: Measured at 1545~1562nm.

*3: Other fiber length also available by request.

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Erbium Doped Fiber Amplifier
CGB/EFA-PM Series, Polarization Maintaining EDFA

Features

- Bit-rate transparency
- Wide operating wavelength range
- Stable saturated output power
- High PER
- Exceptionally low noise figure
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- Input and output signal monitoring
- Front panel LCD display and status LED indicators for quick access of unit's status
- RS-232 for local supervision

Applications

- Ultra high speed transmission systems
- Wide band PM transmission systems
- Test and instrument measurements
- Optical sensor
- Lab research

Description

GIP Technology PM-series Polarization Maintaining Erbium Doped Fiber Amplifiers (PM EDFAs) are designed for use in the high speed and wide bandwidth applications. They amplify optical signals across the conventional communication band. These series incorporate a special, unique, and flexible structure to produce maximum signal gain and saturated output power while minimizing noise figure. Through optimization of these important amplifier parameters, this module will be easily deployed into any of high-quality telecommunication platforms.

This model is offered as C-band in power booster configuration.

This series is available in a variety of packaging choices, ranging from the gain block module, stand-alone desktop. The flexible package size provides solutions for multiple applications and serving area. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces.

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Specifications

Optical Information		Unit	Description	
			CGB	EFA
Operating wavelength range		nm	1530 ~ 1562	
Input power range	Max.	dBm	-10 ~ +10	
Saturated output power*1	Max.	dBm	25	
Signal gain	Typ.	dB	25	
Noise figure	Typ.	dB	6	
Polarization extinction ratio	Min.	dB	20	
Return loss	Min.	dB	45	
Fiber type			PMF, 900 μ m loose tube	-
Fiber length*2		m	1.0	-
Connector			FC or SC	
Electrical Information				
Operating voltage		V	+5 VDC	100~240 VAC
Control interface			RS232	
Environmental and Mechanical Information				
Operating temperature		°C	0 ~ 50 (Case)	0~35 (Ambient)
Storage temperature		°C	-20~80	
Relative humidity (non-condensing)		%	5~85 (operating)	
Dimension (W x L x H)		mm	127 x 152.4 x 25	Benchtop or Customerized

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

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Erbium Doped Fiber Amplifier
EFA-S Series, Single Channel C-band EDFA

Features

- Bit-rate transparency
- High saturated output power up to 23dBm
- Wide operating wavelength range
- Exceptionally low noise figure
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- Input and output signal monitoring
- Front panel LCD display and status LED indicators for quick access of unit's status
- RS-232 or Ethernet interface for remote supervision.
- Redundant dual power supply

Applications

- Access, metro, and long-haul networks
- Single-channel and narrow-band networks
- Power compensation of OADM and OXC systems
- Booster and pre-amplifier amplification

Description

GIP Technology S-series Erbium Doped Fiber Amplifiers (EDFAs) are designed for use in the single-channel applications. They amplify optical signals across the third or fourth telecommunication window. These series incorporate a special, unique, and flexible structure to produce maximum signal gain and saturated output power while minimizing noise figure. Through optimization of these important amplifier parameters, this module will be easily deployed into any of high-quality telecommunication platforms.

This model is offered as C-band in different configurations, booster, in-line or pre.

The compact rack-mounted unit serves the area size. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS-232 and SNMP).

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Specifications

Optical Information		Unit	Description	
			Booster	***Pre***
Operating wavelength range		nm	1528 ~ 1562	
Input power range		dBm	-10 ~ +10	-30 ~ -10
Saturated output power*[1]	Max.	dBm	23	13
Signal gain	Typ.	dB	25	30
Noise figure	Typ.	dB	6	5.5
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Connector			SC or FC	
Electrical Information				
Operating voltage		Volt	-48VDC and 100~240 VAC	
Pump LD ON/OFF switch			Key type	
Control interface			RS232 & SNMP	
Power consumption	Typ.	W	30	
Environmental and Mechanical Information				
Operating temperature		°C	0 ~ 50	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension		mm	19” or 23”	

*1: Saturated power is composed of optical signal and ASE power.

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