

**1550nm CATV Erbium Doped Fiber  
Amplifier · EDFA1550-xxA/B-xx X xx Series**

**Technical Specification**

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## **1.0 PRODUCT DESCRIPTION**

EDFA1550-xxA/B-xx x xx series is a high-power multi-ports EDFA with gain spectrum band within 1540~1563nm. It is designed for the application of single channel or 1~8 continuous ribbon channels (ITU wavelength). This series of EDFA offers a flexible and low-cost solution for CATV large area coverage of metropolises and medium-sized cities.

EDFA1550-xxA/B-xx X xx EDFA adopts the world's top class pump laser and America OFS erbium-doped optical fiber. Perfect APC, ACC and ATC control, excellent design in the ventilation and heat-dissipation ensure the long life and high reliable work of pump laser. RS232 and RJ45 offer serial commutation and SNMP network management port. The LCD at the front panel offers the work index of all equipment and warning alarm. The laser will switch off automatically if optical power is missing, which offers security protection for the laser. All the optical port of EDFA can be installed in the front panel (also can be in the back panel if customers specify).

EDFA product, for its high quality, high reliable and high cost performance, is the ideal choice of the system integration and system operation.

EDFA1550-xxA EDFA: 1RU chassis, total output power >1000mW, offers 16 optical outputs at most.

EDFA1550-xxB EDFA: 2RU chassis, total output power >5000mW, offers 64 optical outputs at most.

## **2.0 PRODUCT FEATURE**

- 1540~1563nm operating bandwidth for EDFA1550-16X19 EDFA
- 500~5000mW (27~37dBm) high output power
- 8~64 outputs is optional
- Low noise, high reliability
- APC, ACC, ATC controlled selection (EDFA1550-16X19/P)
- Powerful RS232 supervisory instruction
- Efficient space, flexible installation and easy operation
- Excellent P/P ratio

## **3.0 MAIN APPLICATION**

- AM CATV
- Digital CATV
- DBS & MMDS
- FTTx PON

## 4.0 Technique index

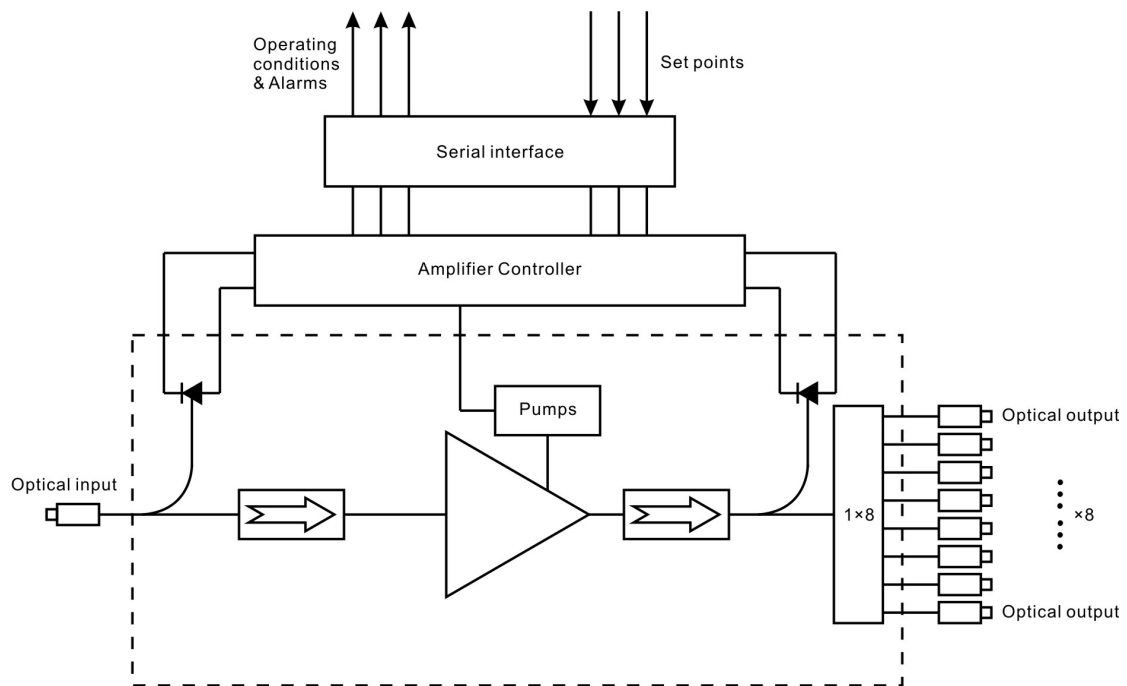
Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical feature	Operating wavelength range	(nm)	1540		1563	CATV
	Input power	(dBm)	-10	≥+3	+10	
	Total output power <sup>1)</sup>	(dBm)	27		32	1U
			28		37	2U
	Number of output ports		4		16	1U, SC/APC, LC/APC
			8		32	1U, LC/APC
			8		32	2U, SC/APC, LC/APC
			16		64	2U, LC/APC
	Each port output power	(dBm)	10		22	
	Difference of output power	(dB)	-0.5		+0.5	
	Output power adjustable range	(dBm)	-6		0	EDFA1550-16X19/P
	Noise figure (Pin=0dBm)	(dB)			6.3	
	Polarization dependence loss	(dB)			0.3	
	Polarization dependence gain	(dB)			0.4	
	Polarization mode dispersion	(ps)			0.3	
Input/output isolation	(dB)	30				
Pump power leakage	(dBm)			-30		
Echo loss	(dB)	55			APC	
General feature	Network management interface		RJ45			SNMP
	Series interface		RS232			
	Power supply	(V)	90		265	220VAC
			30		72	-48VDC
	Power consume	(W)			150	

Operating temp.	(°C)	-5	65
Storage temp.	(°C)	-40	80
Operating relative humidity	(%)	5	95
Size (W)×(D)×(H)	(")	19×14.5×1.75	
	(")	19×15.4×3.5	
			1RU (19")
			2RU (19")

Remark: Output power can be customized by user.

## 5.0 OPTIC/ELECTRICAL SCHEMA

1, Optical port mode 08 (8 ways optical output)



## 6.0 Product series

Model number	Total output power	Number of output port	Each port output power	Connector
EDFA1550-26A-8x15.5	26dBm(400mW)	8	15.5	SC/APC, LC/APC
EDFA1550-26A-16x12		16	12.0	
EDFA1550-27A-8x16.5	27dBm(500mW)	8	16.5	SC/APC, LC/APC
EDFA1550-27A-16x13		16	13.0	
EDFA1550-28A-8x17.5	28dBm(630mW)	8	17.5	SC/APC, LC/APC
EDFA1550-28A-16x14		16	14.0	
EDFA1550-29A-8x18.5	29dBm(800mW)	8	18.5	SC/APC, LC/APC
EDFA1550-29A-16x15		16	15.0	
EDFA1550-30B-8x19.5	30dBm(1000mW)	8	19.5	SC/APC, LC/APC
EDFA1550-30B-16x16		16	16.0	
EDFA1550-31B-8x20.5	31dBm(1260mW)	8	20.5	SC/APC, LC/APC
EDFA1550-31B-16x17		16	17.0	
EDFA1550-32B-8x21.5	32dBm(1600mW)	8	21.5	SC/APC, LC/APC
EDFA1550-32B-16x18		16	18.0	
EDFA1550-32B-32x14.5		32	14.5	LC/APC
EDFA1550-33B-8x22.5	33dBm(2000mW)	8	22.5	SC/APC, LC/APC
EDFA1550-33B-16x19		16	19.0	
EDFA1550-33B-32x15.5		32	15.5	LC/APC
EDFA1550-34B-8x23.5	34dBm(2500mW)	8	23.5	SC/APC, LC/APC

EDFA1550-34B-16x20		16	20.0	
EDFA1550-34B-32x16.5		32	16.5	LC/APC
EDFA1550-35B-16x21	35dBm(3200mW)	16	21	SC/APC, LC/APC
EDFA1550-35B-32x17.5		32	17.5	LC/APC
EDFA1550-36B-16x22	36dBm(4000mW)	16	22	SC/APC, LC/APC
EDFA1550-36B-32x18.5		32	18.5	LC/APC
EDFA1550-36B-64x15		64	15.0	
EDFA1550-37B-32x19.5	37dBm(5000mW)	32	19.5	LC/APC
EDFA1550-37B-64x16		64	16.0	

- Remark:
1. All EDFAs in EDFA1550-xxA/B-xx x xx series with specified output power and output ports can be in 2U casing.
  2. Please contact us for detailed datasheet of EDFA if special output power and output ports configuration is required.