Technical Specification

1550nm CATV Erbium Doped Fiber Amplifier

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JP3216EA Series

CONTENT

1.0 Product description

JP32XXEA(2RU) series is a high power multi-ports optical amplifier with gain spectrum band within 1540~1563nm. It is mainly designed for the application of CATV. It offers a flexible and low-cost solution for CATV large area coverage of metropolises and medium-sized cities.

JP32XXEA optical amplifier adopts the world's top class pump laser and active 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.

JP32XXEA has extremely low noise figure, the entire unit adopts twin-stage amplification, and the pre-amplifier adopts low noise EDFA, output cascade adopts high power EYDFA. When input optical power Pin=0dBm, the noise figure of unit is: Typ ≤4.5dB, Max ≤5.0dB Unlike other kind of product which need high optical power input to maintain lower noise figure.

JP32XXEA LCD at the front panel offers the work index of all equipment and warning alarms. The laser will switch off automatically if optical power is missing, which offers security protection for the laser.RS232 and RJ45 offer serial commutation and SNMP network management port. All the optical port of optical amplifier can be installed in the front panel or back panel.

JP032XXEA optional two-way optical input (built-in 2x1 optical switch), can be used for self-healing ring network or redundant backup network.

JP32XXEA with carrier-class reliability and network security management, high quality, high reliability and excellent cost performance and is ideal for system integrators and system operator.

2.0 Product feature

•Total output power optional 500~10000mW(27~40dBm)

•19'' 1RU rack, optional output port up to 64 optional port.

•Built-in low noise pre-amplifier, not necessary EDFA cascade, extremely lower the CNR, MER degradation of the system

•Low noise figure (Typ ≤4.5dB, Max ≤5.0dB)

•Perfect RS232， SNMP

•Telecom level safety reliability and network management.

•Simplified machine-room links, improve the system reliability.

•Simple and reliable in construction/maintenance

•Optional dual optical input, built-in 2 × 1 optical switch

•Dual power supply optional, 1+1 backup

•Can reduce the 98% device space usage

•Can reduce the 85% device purchase cost

•Can reduce 95% power consumption

•The best cost performance in industry.

3.0 Main application

•AM CATV

•Digital CATV

•DBS & MMDS

•FTTx PON

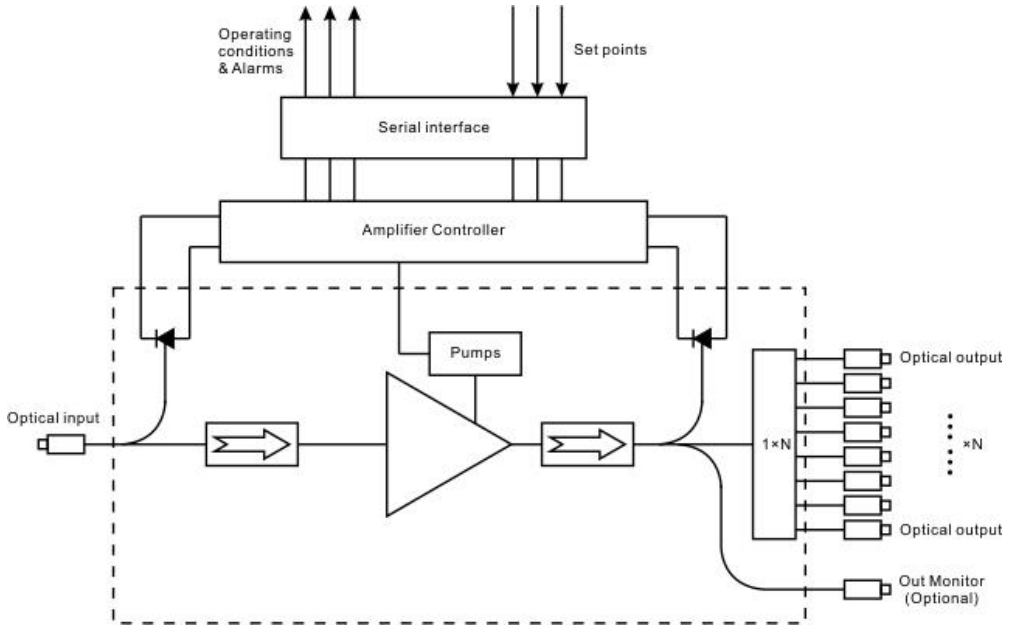
4.0 Technique index

Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical feature	Operating wavelength range	(nm)	1540		1563	CATV
	Input power	(dBm)	-10		+10	
	Total output power[1)]	(dBm)				
	Number of output ports	(pcs)			32	4/8/16/32
	Each output power	(dBm)	0		22	13 ~ 24dbm
	Difference of output power	(dB)	-0.5		+0.5	
	Output power adjustable range	(dBm)	-6		0	
	Noise figure (Pin=0dBm)	(dB)		4.5	5.0	
				5.0	6.0	
	Switch time	(ms)			8.0	
	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
	Power supply	(V)	90		265	220VAC
			30		72	-48VDC
	Power consume	(W)			50	
	Operating temp.	(°C)	-5		65	
	Storage temp.	(°C)	-40		80	
	Operating relative humidity	(%)	5		95	
	Size (W)×(D)×(H)	(")	19×14.3×1.75			2RU（2X19”）

Remark: Output power can be customized by user.

5.0 Optic/electrical schema

5.1 JP0800EA (conventional)



5.2 JP0800EA (Built-in Optical Switch)