EDFA LIFEFIBER XGSPON 16 PUERTOS

XGS-PON



PRODUCT DESCRIPTION

FWAP-XGS series erbium and ytterbium co-doped high-power fiber amplifier is the latest optical transmission system equipment,



realizing to combine optical signal OLT XPON/XGS-PON and 1550nm CATV, and amplify the CATV signal as well. The optical input number: 1 port of CATV or 2 redundant CATV inputs + 16 ports PON input ports. 16 ports outputs of 1550nm+1490nm/1310nm & 1270/1577nm combine output, of which the total output power range of 1550nm is 27 ~ 37dBm. Multiple output power can be matched according to user demand. High-power WDM EDFA is well compatible with the OLT/ONU of HUAWEI, ZTE, FiberHome, etc and no data is lost, which owns high cost performance. It is mainly used for XPON / XGS-PON structure fiber to home(FTTH) and fiber to the building(FTTB). This series product adopts JDSU, Lumentum, II - VI etc multimode high power pump laser as pump source and American OFS closed beam splitter as double-cladding synthesizer. Built-in optical power output stabilization circuit and laser thermoelectric cooler temperature stabilization control circuit ensure the best performance of the EDFA and the long-term stable operation of the laser. The microprocessor software monitors the working status of the laser, and the working parameters are displayed on the digital panel (LCD). Once the laser's working parameters deviate from the allowable range set by the software, the micro-processing will automatically turn off the laser power, and the red light flashes to alert.

PRODUCT FEATURE

- Top quality: Adopt multi-mode high-power pump laser and the power is optimized through software, which makes the system achieving excellent CNR.
- ◆ Reliability: Adopt 19" 2U standard chassis, built-in high performance modular switching power supply, can work in AC 90 ~ 265V city network voltage. DC 48V hot-swappable power supply option is available as well. Dual hot and reserved power supply with Chassis automatic heat dissipation control.
- Intuitive: The built-in microprocessor monitors the working status of the pump laser, and the working parameters are displayed on LCD.
- Network management Interface: Web transponder is line with the national standard and compatible with the SCTE HMS standard, achieving WEB monitoring function. The red warning symbol is displayed on the web page, which is convenient for troubleshooting.
- ◆ Adjustable output optical power: Advanced design enables a large adjustable range of output power, and power can be lowered by 0 ~ -3dBm.
- Plug-in WDM modular: Integrated FWDM module, CATV, GPON, EPON, XGS-PON. One fiber with multiwaves is convenient to use.
- Built-in optical switch option: There are automatic (prefer) or manual (force) switch mode when CATV signal has main path A and redundant path B optical switch input (OPT SWTTCH). Automatic mode uses the main path A by default, it switches to redundant path B if A input power fails.







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TECHNICAL PARAMETERS

Items	Unit	Performance Index
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Optical Operating Wavelength	nm	1535 ~ 1565
Input Optical Power Range	dBm	-10 ~ +10
Noise Ratio	dB	≤5.0 (0 dBm,@1550nM)
Gain Flatness	dB	< ±0.3
Optical Power Output Stability	dB	< ±0.5
Polarization Sensitivity	dB	< 0.2
Polarization Mode Dispersion	Ps	< 0.5
Input End Pump Leakage Power	dB	≤-30
Output End Pump Leakage Power	dB	≤-30
Optical Input, Output Return Loss	dB	> 45(APC Stepped Face)
Pump Operating Number	PCs	2~3
Rated Output Power	dBm	27 ~ 37
Linker(IN)	-	SC/APC or LC/APC
Linker(OUT)	-	SC/APC or LC/APC
Power Supply/Consumption	v/w	AC90 ~ 265 or DC-48/20
Operating/Storage Temperature	°C	-20 ~ 65/-30 ~ 70
Operating/Storage Humidity	%	5 ~ 90
Case Size	mm	530×486×88 (2U)
Network Management Connector	/	RJ45(following national network management standard,

	XG(S)- PON Wavelength	nm	1310/1490 & 1270/1577
	PON Linker	/	SC/UPC or LC/UPC
	Uplink optical ports	pcs	16
	Output ports	Pcs	16
	PON Insertion Loss	dB	<1.2
	1550 Port Insertion Loss	dB	< 0.7
	Optical isolation	dB	40
Optical Switch	Insertion Loss	dB	<1
	Harass	dB	<-60 (isolation between A and B)
	Switch Time	ms	< 10
	Switched Power Threshold Range	dBm	-5~10



