



### DATASHEET

Customized FTTx PON High Power 1550nm EYDFA

OTN Solutions for Metro, Regional & Long Haul

## Description

EYDFA is a Er/Yb Doped Fiber Amplifier that utilizes multimode laser pumping and Erbium/Ytterbium double-clad technology to achieve high output power in conjunction with low cost. This amplifier employs the laser pumping (Patent No. ZL200820150412.3), and the laser driver circuit (Patent No.

ZL200820150413.8) to reach better and more stable performance. Inimitable ATC or APC circuit ensures the stability of output power. The MPU system with high accuracy and high stability is controllable and adjustable. It offers a flexible and low-cost FTTx solution for CATV large area coverage of metropolises and medium-sized cities.

#### **Features**

- Controllability and maneuverability: Dual CPUs deal with control loop and communication separately
- High stability and reliability: MTBF > 150000 hours
- Redundant hot swap power module: 220VAC/-48VDC
- Ethernet, RS-485 and RS-232 interface
- Support Telnet and SNMP network management
- OEM available
- Bellcore GR-1312-CORE compliant
- Employ intelligent temperature control system:
- (1) Adopt special temperature control circuit where heat dissipation and power consumption can be reduced by 30%.
- (2)The professional design for air volume also ensures the ideal temperature . The fan starts up when the temperature of the cabinet exceeds 45  $^{\circ}$ C, and the product runs down below 40  $^{\circ}$ C. This technology ensures thermal stability of system and fan's long life.

# **Application**

- Analog and Digital CATV Optical Network
- FTTH
- Tri-networks integration
- Free space communications
- R&D

# **Optical Characteristics**

Operating Wavelength	1529~1564nm	Max Output Power	26dBm	
Output Per Path	26dBm	Output Port Number	1	
Input Power	-10~10dBm	Noise Figure	5dB	
Input Isolation	≥30dB	Output Isolation	≥30dB	
Return Loss	≤-45dB	Gain Stability	±0.05dB	
Consumption	≤35W	Fiber Optic Interface	LC/UPC or LC/APC	

## **Electrical Characteristics**

Parameter	Symbol	Min	Тур	Max	Unit
Power Supply	Vps	170		264	VAC
Consumption	Р			50	W

## **Environmental Characteristics**

Parameter	Symbol	Min	Тур	Max	Unit
Operating Temperature	Tw	-5		60	°C
Storage Temperature	Ts	-40		80	°C
Humidity (1)		10		85	%

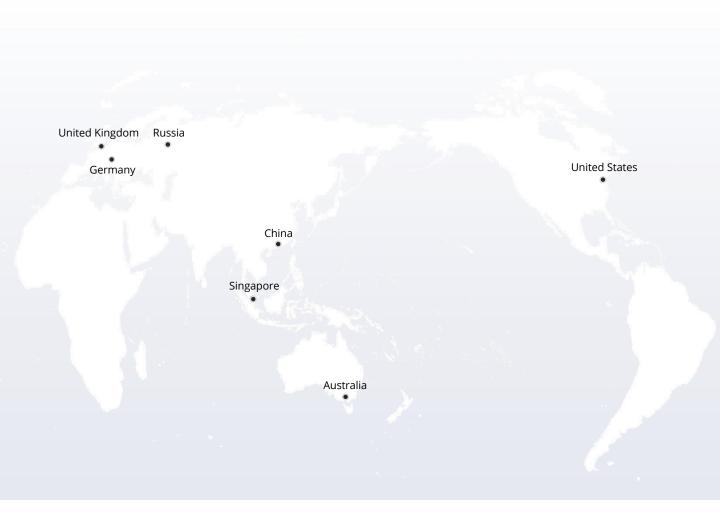
<sup>(1)</sup> No condensation

# Order Information

Housing	1U/2U rack mount		
WDM	without with		
Single Channel Output		9dBm 20dBm 3dBm	
Input Power	-3dBm~10dBm -8dBr 0dBm~10dBm 5dBr	m~10dBm m~15dBm	
Output Power	17dBm-23dBm		
Connector	LC/APC SC/APC		
Power 1	100V-240VAC 36V-7	72VDC	
Power 2	100V-240VAC 36V-7	72VDC None	

<sup>\*</sup>Customized specifications are available upon request.









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