



## 37dBm Multiport High Power Fiber Amplifier Rack (With FWDM)

### ►► Description

YEDFA-MP series of high power fiber amplifiers are especially designed for FTTx, CATV, FDC and HFC analog amplification applications those require high reliability. Compared to conventional amplifiers, these modules are more compact, powerful, stable and reliable.

This line of high power fiber amplifier features a dual stage amplification configuration, pre-amplifier and power amplifier, the use of selected multi-channel splitters and 1310nm, 1490nm, 1550nm FWDM components with extremely low IL and high reliability.

Both input and output signals are sampled and monitored with a feedback circuit. ACC (automatic current control) and APC (automatic power control) circuits are designed into the amplifier to ensure high stability and reliability of output power. Based on integrated power monitoring circuits, it features Ethernet or RS-232 network interface, supporting open network management protocol (SNMP), enhancing flexibility to maintain connectivity with customer's network management system.

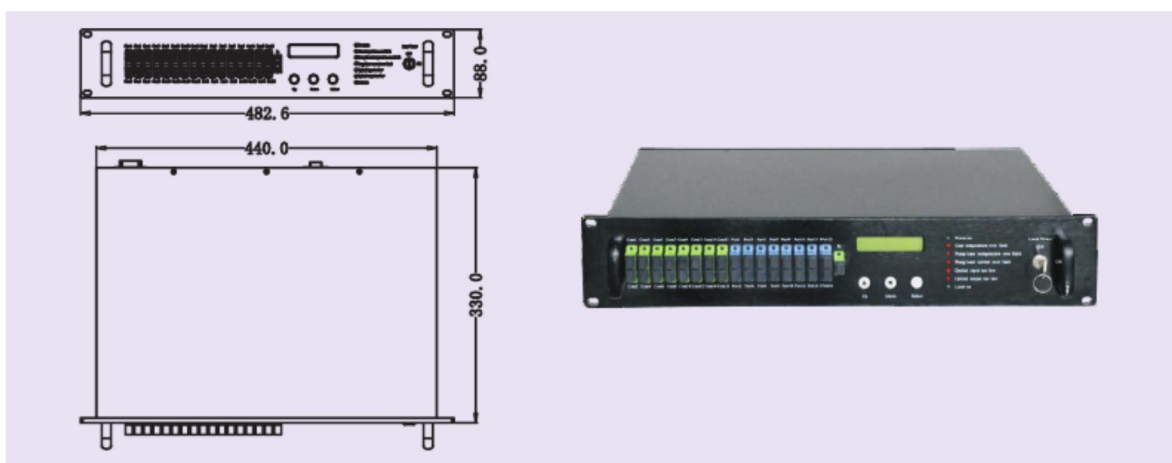
### ►► Features

- Low noise figure
- Optional output configurations 19dBm \* 32 ports, 20dBm \* 24 ports, 22dBm \* 16 ports, 25dBm \* 8 ports, 27dBm \* 4 ports, etc.
- Highly reliable laser diode pumps
- High stability and reliability based on multi-mode pumping and fiber combiner technology
- Assembling 1310nm, 1490nm and 1550nm FWDM (optional)
- Wide operating temperature range

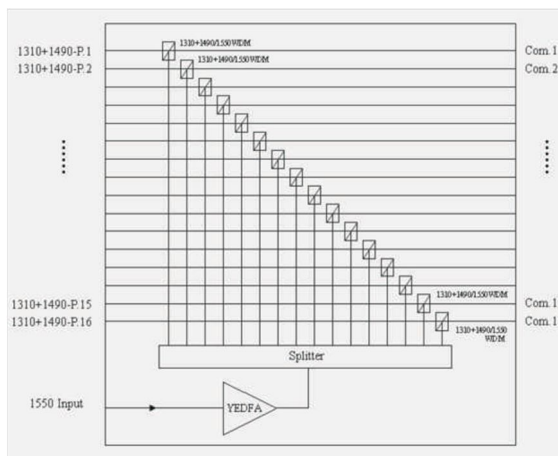
### ►► Applications

- Test and Measurement
- Analog CATV transmission systems
- Data & Voice optical transmission systems
- Optical distribution systems
- FTTx

### ►► Typical Mechanical Structure



Mechanical Outline: 19-in 2U Rack (typical)

**►► Specifications:****Typical Function Structure****Optical Characteristics**

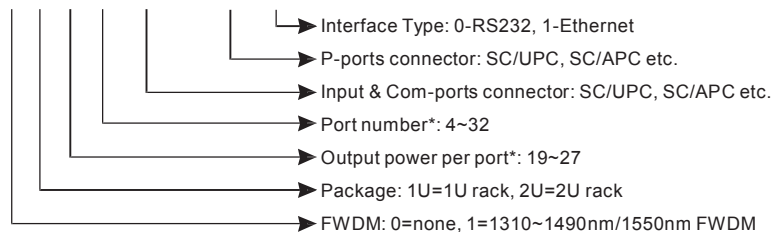
Parameter	Unit	Specifications			Notes
		Min.	Typ.	Max.	
Broadcasting Signal Wavelength Range	nm	1543		1565	$\lambda 1$
Broadcasting Input Port Power	dBm	-5		10	$\lambda 1$
Broadcasting Output Port Power	dBm	19		27	$\lambda 1$ (Other output power upon request)
Broadcasting Output Ports		4		32	$\lambda 1$ (Other ports upon request)
Broadcasting Signal Noise Figure	dB		5.0	7.0	@0dBm input power, 1550nm
Broadcasting Signal Output Power Difference	dB			2.0	With FWDM, $\lambda 1$
Data & Voice Signal Wavelength	nm	1310/1490			$\lambda 2/\lambda 3$
Data & Voice Signal Insertion Loss	dB			1.0	$\lambda 2/\lambda 3$
Directivity	dB	50			
Return Loss	dB	50			
PDL	dB			0.5	
PMD	ps			1	

**Electrical & Environmental Characteristics**

Parameter	Unit	Typ.	Notes
Interface Type		RS 232 or Ethernet	
Power Supply	V	AC 90-240	
Power Consumption	W	100	Depend on YEDFA power
Alarms		Case temperature over limit ; Pump laser temperature over limit; Pump laser current over limit ; Optical input too low ; Optical output too low	
Operating Temperature Range	°C	-10 to 55	
Storage Temperature Range	°C	-20 to 70	
Humidity	%	5 to 95	
Dimensions (W*D*H)	mm	482.6×330×88	19-in 2U rack
Cooling		Conductive via surface & Fans	

**►► Order Information:**

YEDFA-MP-X-XX-XX-XX-XX/XXX-XX/XXX-X



\*Options are 19dBm \* 32 ports, 20dBm \* 24 ports, 22dBm \* 16 ports, 25dBm \* 8 ports, 27dBm \* 4 ports. Other options are available upon request.