



# CATV Erbium-doped Fiber Amplifier Rack

## ►► Description

This 19" Rack EDFA is designed for CATV long distance transmission, amplifying low signal power into high signal power, extending transmission distance.

Both input and output signals are sampled and monitored with a feedback circuit. APC (automatic power control) circuit is designed into the amplifier to ensure high stability and reliability of output power. Based on integrated power monitoring circuit, this amplifier features Ethernet or RS-232 (or RS-485) network interface, capable to support open network management protocol (SNMP) as an option, adding flexibility to maintain connectivity with customer's network management system.

As an option, by using a selected set of multi-channels splitters with extremely high reliability and low IL values, users can split the output signal into multiple ports.

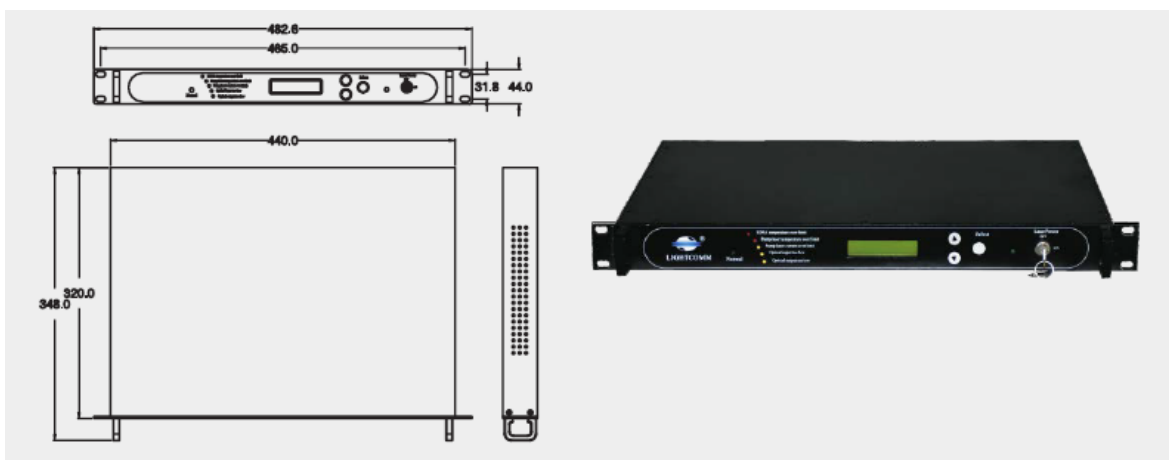
## ►► Features

- Low noise figure
- High output and high gain
- Optional output configuration: 13~23dBm (one output port), 17dBm \* 4 ports, 16dBm \* 4 ports, 17dBm \* 2 ports, 16dBm \* 2 ports etc.
- Highly reliable laser diode pumps
- High stability and reliability
- Wide operating temperature range
- Intelligent MPU monitor
- User friendly interface RS232/RS485/SNMP(optional)

## ►► Applications

- Analog and digital CATV systems
- Long distance transmission systems
- Access networks
- LANs and WANs

## ►► Typical Mechanical Structure



Mechanical outline : 19-in 1U Rack (typical)



## ►► Specifications:

### Optical Characteristics

Parameter	Unit	Typ.
Operating Wavelength	nm	1530~1565
Output Power	dBm	13~23(one output port), 17 * 4 ports, 16*4 ports, 17 * 2 ports, 16 * 2 ports etc.
Input Power	dBm	-5 ~+10
Noise Figure	dB	5.0(≤7.0)
Control Mode		APC
Output Return Loss	dB	>40
PDG	dB	<0.5
Pump remnant to output	dBm	<-30
Pump remnant to input	dBm	<-30
Fiber Type		SMF-28
Connector Type		SC/APC

### Electrical & Environmental Characteristics

Parameter	Unit	Typ.
Interface Type		Rs232 or RS485 or Ethernet
Power Supply	V	AC 100~240
Power Consumption	W	<60
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	℃	-5 to 55
Storage Temperature Range	℃	-20 to 70
Humidity	%	5 to 95
Dimensions (W*D*H)	mm	482.6x320x44

## ►► Order Information:

EDFA-CA-SO-X-XX\*X-XX/XXX-X

