

# 2U Erbium Doped Fiber Amplifier



Keyword: Touch Screen, WDM

Model: CMOA-EY

## Production Description

CMOA-EY is a low noise, high performance, FTTP high power, multi-ports optical amplifier with gain spectrum band within 1540~1563nm. Each output port for optical amplifier with built-in well-performed CWDM. Every external up-link optical port of optical amplifier can connect with OLT PON port very conveniently. Each 1550nm CATV's output optical port multiplex 1310/1490nm's data stream, in order to reduce the quantity of the component and improve the index and reliability of the system.

CMOA-EY optical amplifier can be compatible with any FTTP PON Technology. It offers a flexible and low-cost solution for three-network integration and FTTH. Front Panel LCD at brand new TOUCH SCREEN design, offers the work index of all equipment and warning alarms. meanwhile, control buttons also available as backup.

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

## Advantages

- Exclusive copyright Touch Screen design
- Simplified machine-room links, improve the system reliability
- Built In Fiber switch function. dual fiber input
- Can compatible with any FTTP PON technology: EPON/GEAPON, GPON
- Up to optional 64 up-link ports, which used in OLT; And 64 1550nm output optical ports, multiplex the 1310/1490nm data stream.
- Built-in low noise pre-amplifier, not necessary EDFA cascade
- Efficient space, simple and reliable in construction/maintenance
- Dual power supply optional, 1+1 backup
- Industry's best price-performance
- Simple and reliable in construction/maintenance

## Specification

	Performance	Index			Supplement
		Min.	Typ.	Max.	
Optical Feature	CATV operation wavelength(nm)	1540		1563	CATV
	OLT pass wavelength(nm)		1310/1490		
	CATV pass wavelength loss(dB)			0.80	1550nm
	OLT pass wavelength loss(dB)			0.80	1310/ 1490nm
	CATV & OLT isolation(dB)	40			
	Number of uplink optical ports(OLT)	8		64	
	CATV input power(Pi) (dBm)	-10		+10	
	Total output power(dBm)			41	
	Number of output ports(pcs)	8		64	8/16/32/64 optional
	Each port output power(dBm)	0		22	
	Difference of each output power(dB)	-0.5		+0.5	
	Output optical power monitoring(dB)			-20	Optional
Output power adjustable range(dB)	-6		0	Optional	
General Feature	Noise figure(dB)		4.5	5.5	
			5.0	6.0	
	Switch time(ms)			8.0	
	Polarization dependance loss(dB)			0.3	
	Polarization dependance gain(dB)			0.4	
	Polarization mode dispersion(ps/nm)			0.3	
	Input/Output isolation(dB)	30			
	Pump power leakage			-30	APC
	Echo loss(dB)	55			
	Serial interface			RS232	
	Power supply(V)	90		265	220VAC
		30		72	-48VDC
	Power consume(W)			84	
	Operation temperature(°C)	-5		65	
	Storage temperature(°C)	-40		80	
Relative humidity(%)	5		95		
Size(W)*(D)*(H) (MM)	485(L)*370(W)*83(H)mm				