

HA5400C (3RU)

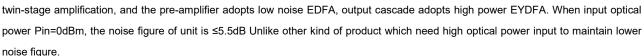
High-power Multi-ports output CATV EDFA (1540~1563nm)

PRODUCT DESCRIPTION

HA5400C (3RU) series is a high power multi-ports optical amplifier with gain spectrum band within 1540~1563nm. It is mainly designed for the application of CATV or 1~8 continuous banding channel (ITU wavelength). It offers a flexible and low-cost solution for CATV large area coverage of metropolises and medium-sized cities.

HA5400C optical amplifier adopts the world's top class pump laser and active optical fiber. Perfect APC, ACC and ATC control, excellent design in the ventilation and heat-dissipation ensure the long life and high reliable work of pump laser.

HA5400C has extremely low noise figure, the entire unit adopts



HA5400C LCD at the front panel offers the work index of all equipment and warning alarms. The laser will switch off automatically if optical power is missing, which offers security protection for the laser.RS232 and RJ45 offer serial commutation and SNMP network management port. All the optical port of optical amplifier can be installed in the front panel or back panel.

HA5400C optional two-way optical input (built-in 2x1 optical switch), can be used for self-healing ring network or redundant backup network.

HA5400C with carrier-class reliability and network security management, high quality, high reliability and excellent cost performance and is ideal for system integrators and system operator.

HA5400C:19" 3RU rack, The total maximum output power of 45dBm (32000mW), optional output port up to 256 optional port.





PRODUCT FEATURE

- ► Total output power optional 8000~3200mW (39~45dBm)
- ▶ 19" 3RU rack, optional output port up to 256 optional port.
- ► Built-in low noise pre-amplifier, not necessary EDFA cascade, extremel lower the CNR, MER degradation of the system
- ► Low noise figure ≤5.5dB
- ► Perfect RS232, SNMP
- ► Telecom level safety reliability and network management.
- ► Simplified machine-room links, improve the system reliability.
- ▶ Simple and reliable in construction/maintenance
- ► Optional dual optical input, built-in 2 × 1 optical switch
- ► Dual power supply optional, 1+1 backup
- ► Can reduce the 98% device space usage
- ► Can reduce the 85% device purchase cost
- ► Can reduce 95% power consumption
- ► The best cost performance in industry.

MAIN APPLICATION

- ► AM CATV
- ► Digital CATV
- ► DBS & MMDS
- ► FTTx PON

TECHNIQUE INDEX

	D. C.			Index	Complement		
	Performance		Min.	Тур.	Max.	Supplement	
	Operating wavelength range	(nm)	1540		1563	CATV	
	Input power	(dBm)	-10		+10		
	Total output power ¹⁾	(dBm)			45		
	Number of output ports				256		
0	Each output power	(dBm)	0		22		
ptical	Difference of output power	(dB)	-0.5		+0.5		
Optical feature	Output optical power monitoring	(dB)		-20		Optional	
e e	Output power adjustable range	(dBm)	-6		0	Optional	
	Noise figure (Pin-OdPm)	(dB)		4.5	5.5	НА5400С-1х □□□	
	Noise figure (Pin=0dBm)	(dB)		5.0	6.0	НА5400С-2х □□□	
	Switch time	(ms)			8.0	НА5400С-2х □□□	
	Polarization dependence loss	(dB)			0.3		



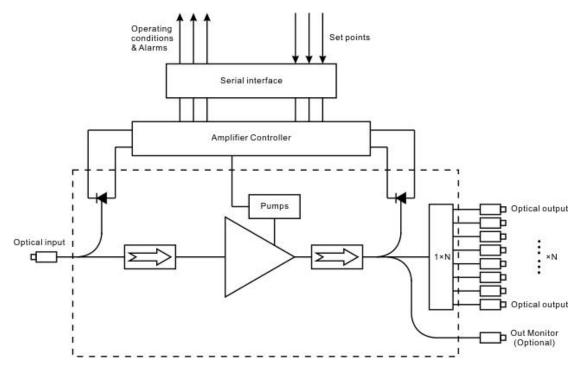
www. gtlasers. com Polarization dependence gain (dB) 0.4 Polarization mode dispersion (ps) 0.3 Input/output isolation (dB) 30 (dBm) -30 Pump power leakage 55 APC Echo loss (dB) Network management interface RJ45 SNMP Series interface RS232 90 265 220VAC Power supply (V) General feature -48VDC 30 72 Power consume (W) 189 Operating temp. (°C) -5 65 (°C) -40 80 Storage temp. Relative humidity (%) 5 95 $19{\times}14.7{\times}5.25$ 3RU (19") Size $(W)\times(D)\times(H)$ (")

Remark: Output power can be customized by user.

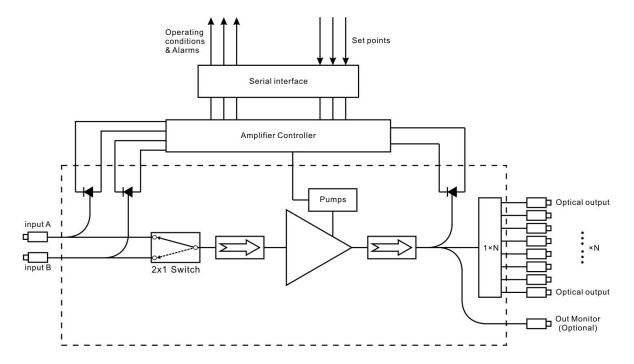


OPTIC/ELECTRICAL SCHEMA

HA5400C-1x □□□ (conventional)



HA5400C-2x $\square \square \square$ (Built-in Optical Switch)





PRODUCT SERIES

Model number	Total output power	Number of output port	Each port output power	Connector		
HA5439C-1×032		32	21.5	SC/APC\LC/APC		
HA5439C-2×032	39dBm(8000mW)	52	21.3			
HA5439C-1×064	Jodani(Goodinivv)	64	18.0			
HA5439C-2×064		04	10.0			
HA5440C-1×064		64	19.0	SC/APC、LC/APC		
HA5439C-2×032 HA5439C-1×064 HA5439C-2×064	40dBm(10000mW)	04	19.0			
	40dBill(10000lllVV)	128	15.5			
HA5440C-2×128		120	13.3			
HA5441C-1×064 HA5441C-2×064 HA5441C-1×128 HA5441C-2×128 HA5442C-1×064 HA5442C-2×064 HA5442C-1×128 HA5442C-1×128		64	20.0			
	41dBm(13000mW)	04	20.0	SC/APC、LC/APC		
	4 IdBIII(13000IIIVV)	128	16.5	SCIAPO LOIAPO		
HA5441C-2×128		120	10.5			
HA5442C-1×064		64	21.0			
HA5442C-2×064	42dBm(16000mW)	04	21.0	SC/APC、LC/APC		
	42dBill(10000lllvv)	128	17.5	SUAFUL LUIAFU		
HA5442C-2×128		120	17.5			
HA5443C-1×064		64	22.0	SC/APC、LC/APC		
HA5443C-2×064	42dPm/20000m\\\)	04	22.0			
HA5443C-1×128	43dBm(20000mW)	128	18.5	SC/APC LC/APC		
HA5443C-2×128		120	16.5			
HA5444C-1×128		120	10.5	SC/APC、LC/APC		
HA5444C-2×128	44dDm/25000m\A/\	128	19.5			
HA5444C-1×256	44dBm(25000mW)	2FG	16.0	I C/ADC		
HA5444C-2×256		256	16.0	LC/APC		
HA5445C-1×128		100	20.5	SCIADO LOIADO		
HA5445C-2×128	4EdDm/20000-W/	128	20.5	SC/APC、LC/APC		
HA5445C-1×256	45dBm(32000nW)	250	47.0	LC/APC		
HA5445C-2×256		256	17.0			



MODEL EXPLANATION

MODE	_	HA			_		ַ	_	_	u ×	֖֖֝֝֟֝֝	<u> </u>	-	<u></u>	<u>-</u>	<u>_</u> /	<u> </u>	<u> </u>	-	WD	_	
Product series		perating velength	Р	roduct type	Total	Output er(dBm)	Ex	terior	2	Funciton		Enter the port number		ne output rt number	C	onnector	P	ower mode	Pov	wer supply		Output Optical port Monitoring
Amplifier of	5	1540~	88	High-output Multi-port output	39	39	С	3RU	O Without		Single input (Without Switch)	032	32 ports	LA	LC/APC	s	Single PS	22	220VAC	00	Without	
communication class	5	1563nm	4		40	40	A 1RU	Р	Optical power adj.] 1		064	64 ports	LP	LC/UPC	D	Dual PS	48	-48VDC			
					41	41	В	3 2RU		2 Dual input	Dual input	128	128 ports	SA	SC/APC	P	Dual PS	40	-48VDC		With output optical	
			42 42 E 5RU			(With Switch)	256	256 ports	SP	SC/UPC	P	Hot plug	42	&220VAC	МО	port monitoring						
					43	43																
					44	44																
					45	45																