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HA8000 Single fiber Bi-direction EDFA

PRODUCT DESCRIPTION

HA8000 series, is a bi-directional fiber amplifier with high-quality. It can transmit and amplify downlink and uplink signal on one fiber. It offers an economical solution to network operators when utilizing the existing fiber source, upgrading networks and providing bi-directional VAD business.

HA8000 is a assembled flat form can configured flexible, users can specify downlink and uplink wavelength, downlink and uplink amplifier type (BA, LA, PA), output power, gain and amplifier optical port model according to their requirement.



► Downlink and uplink operating wavelength option:

R/B: downlink Red-Band (1548~1564nm), Uplink Blue-Band (1528~1563nm)

B/R: downlink Blue-Band (1528~1563nm)), Uplink Red-Band (1548~1564nm

C/C: Downlink and uplink are used C-Band (1528~1564nm)

- ► Downlink and uplink amplifier type (BA, LA, PA) and output
- optical power to choose
- ▶ Three optical ports mode option: Master, Line, Slave
- ► Perfect RS232 communication interface and SNMP network management function
- ► APC, AGC, ACC controlled selection
- ► Low noise, high performance, high reliability
- ► Excellent P/P ratio



MAIN APPLICATION

- ▶ Single fiber bi-direction DWDM application
- ▶ Network upgrade and value-added service



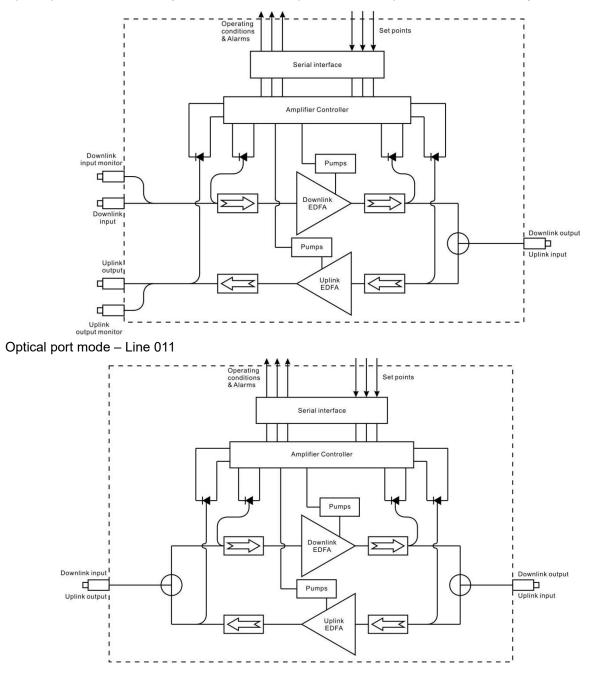
TECHNICAL INDEX

	Performance			Index		Supplement
	Penomance		Min.	Тур.	Max.	Supplement
			1528.0		1563.3	B: Blue-band (C-Band)
	Operation Wavelength range (λ) (uplink or downlink)	(nm)	1548.4		1563.4	R: Red-Band (C-Band)
			1528.0		1564.0	C: C-Band
			-10		+6	ВА
	Input power (uplink or downlink)	(dBm)	-25		-10	LA
			-35		-15	PA
	Output power	(dBm)			24	Uplink or downlink
Optic feature	Gain flatness	(dB)		0.7	1.0	peak-to-peak
featur	Noise figure	(dB)			0	
e	Polarization dependence loss	(dB)			0.2	
	Polarization dependence gain	(dB)			0.5	
	Polarization mode dispersion	(ps)			0.3	
	Input/output isolation	(dB)	30			
	Pump power leakage	(dBm)			-30	
	E.h. J.		40			UPC
	Echo loss	(dB)	55			APC
	SNMP network management interface			RJ45		
	Communication interface			RS232		
G			90		265	220VAC
Genera	Power supply	(V)	30		72	-48VDC
al feature	Power Consume	(W)			50	
ure	Work temp.	(°C)	0		65	
	Storage temp.	(°C)	-40		+80	
	Relative humidity	(%)	5		95	
	Size (W)×(D)×(H)	(mm)		483×368×44		



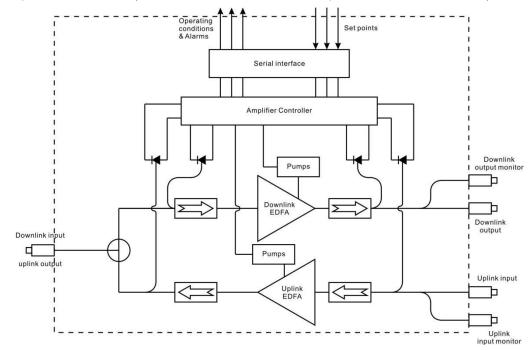
OPTO-ELECTRICAL DIAGRAM

Optical port mode - Master (021, without monitor port, M21 with uplink, downlink monitor)





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Optical port mode - Slave (012, without monitor, M12 with uplink and downlink monitor)



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MODEL EXPLANATION

			H	<u> 8</u>	1	20	R	/ 1	2		В			
	/	\langle	/	/	/			\backslash					/	
Product series	Oper	ating bandwidth	Prod	uct type		BA & PA	w	avelength	Prod	uct type		BA & PA		Wavelength
Amplifier of communication	8	Bi-direction	0	No	00	No	R	C-Band/ Red-Band	0	0 No	00	No		C-Band/
class			1	ВА	13	13dBm			1	BA	13	13dBm	В	Blue-band
			2	LA	17			C-Band/ Blue-band	2	LA	17	17dBm	R	C-Band/
			3	PA	20	20dBm	В		3	PA	20	20dBm		Red-Band
					21	21dBm	С	C-Band			21	21dBm	С	C-Band
					22	22dBm					22	22dBm		
					23	23dBm]				23	23dBm		
					24	24dBm					24	24dBm		
					15	15dBm]				15	15dBm		
					20	20dBm					20	20dBm		
					25	25dBm					25	25dBm		
					30	30dBm					30	30dBm		
					35	35dBm					35	35dBm		
					[Downlink EDFA						Uplink EDFA	4	

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Function		Network nagement		Optical port mode		Exterior			Position of optical ports	Co	onnector	Power		
No		Mith and	044	1.1			40" 4 DU	-	Front social		FOUNDO	22	220	

	Function		Vetwork nagement		Optical port mode		Exterior		Position of optical ports	Co	onnector	Pov	ver supply
0	No	0	Without	011	Line, without monitor port	1U	19" 1RU	F	Front-panel	FA	FC/APC	22	220VAC
	Power	N	With	012	Master, without monitor port	2U	19" 2RU	в	Back-panel	FP	FC/UPC	11	110VAC
Ρ	adjustable			M12	Master, with monitor port	3D	Desk-type			SA	SC/APC	48	-48VDC
	Power			021	Slave, without monitor port	OD	Out-door			SP	SC/UPC		
G	gain			M21	Slave, with monitor port		Appearance			LA	LC/APC		
						OEM	user customized			LP	LC/UPC		
						ML	Modulator						