

ERBIUM DOPED FIBRE AMPLIFIER - EDFA

APPLICATIONS

- Optical amplification for the wavelength of 1550nm
- Realization of vast HFC- and RFOG-networks
- Decentral signal distribution / amplification in FTTx / xPON-networks
- CATV-overlay in FTTx and xPON-networks



PRODUCT FEATURES

- High optical output power of +18dBm or +21 dBm at each output port (other optical output levels on request)
- Up to 64 possible optical outputs
- Integrated optical isolation of the downstream wavelength of 1550 nm and all other possible wavelengths in upstream for the realization of standard-RFOG, CWDM-RFOG- or GPON-networks
- Low insertion loss in DS&US and high isolation of DS&US (>50dB)
- Low noise figure
- Integrated micro controller and LCD
- Parameter-Display: input/output optical power, pump-bias, temperature and voltage
- Supports SNMP monitoring and WebGUI
- Redundant power supply
- 19", 1 or 2 Rack Unit type

Optical Amplifier

OA 1155 - XX - XX - X

Type	Item No.	Wavelength EDFA	Number of outputs	optical output power/port (dBm)	W= WDM filter AE=Active Ethernet (PtP)	GPON optimized	CWDM-RFOG	RU
OA 1155-1-18	57001613	1550	1	18				1
OA 1155-1-21	57001813	1550	1	21				1
OA 1155-4-18	57001810	1550	4	18				1
OA 1155-4-21	57001809	1550	4	21				1
OA 1155-4-21w	57002631	1550	4	21	W	x	x	1
OA 1155-8-21	57002426	1550	8	21				1
OA 1155-8-21w	57002010	1550	8	21	W	x	x	1
OA 1155-16-21	57002427	1550	16	21				1
OA 1155-16-21w	57002009	1550	16	21	W	x	x	1
OA 1155-32-21w	57003982	1550	32	21	W	x	x	2
OA 1155-64-21w	57004170	1550	64	21	W	x	x	2
OA 1155-16-0-AE	5700xxxx	1550	16	0	AE			2
OA 1155-32-0-AE	5700xxxx	1550	32	0	AE			2
OA 1155-64-0-AE	5700xxxx	1550	64	0	AE			2



Type 19" , 1 or 2 RU
Up to 64 optical outputs

TECHNICAL SPECIFICATIONS

Performance		Min.	Typ.	Max.	
Optical features	Optical input wavelength (λ)	nm	1540	1150	1565
	Optical input level	dBm	-5	3	10
	Optical output power (at each output)	dBm		18/21	
	Number of ports		1		64
	Noise ratio	dB			5.5
	Polarization dependent loss	dB		0.1	
	Polarization dependent gain	dB			0.5
	Insertion loss (DS&US) (1550nm in DS, CWDM/ 1550 in US)	dB	0.6	0.9	1.6
	Isolation DS/US	dB		> 50	
Remote Management		Web GUI / SNMP V2 (Ethernet port)			
General features	Power supply	V AC	170	230	264
		VDC	40	48	57
	Power input	W			50
	Operating temperature	°C	-5		+55
	Storage temperature	°C	-20		85
	Dimensions	mm		240 x 482 x 44/88	
	Weight	kg		8	11

High Isolation between DS/US necessary. Example:

Return receiver (Rx) Input power (dBm)	Gain and isolation DS / US		Optical DS performance at the input of the Upstream-Rx
	21 dB	30 dB	-9 dBm (noise) -29 dBm (noisefree)
	21 dB	50 dB	

* All of the optical amplifiers can be delivered with a special filter for GPON, RFoG or CWDM-RFoG.
All of the optical amplifiers are RFoG optimized, WebGui and SNMP suitable.