

ERBIUM DOPED FIBRE AMPLIFIER - EDFA

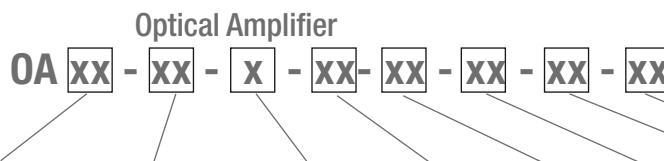
APPLICATIONS

- 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)
- Optical attenuator up to 6 dB in 0.1 steps is integrated
- Optical MEMS switch for redundancy is integrated
- 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
- Parameter-Display: input/output optical power, pump-bias, temperature and voltage
- Supports SNMP monitoring and WebGUI
- Redundant power supply
- 19" rack version, 1 RU for up to 8 outputs and 2 RU for 16, 32 and 64 outputs



Typ	Item No.	Number of outputs	Optical output port (dBm)	W=WDM Filter	Connector CATV port	Connector xPON port	Connector COM port	Power supply	Front/back powered
OA 1-21-LA-GF	57004494	1	21				LC/APC		BP
OA 08-21-W-SA-LP-LA-DC	57004419	8	21	W	SC/APC	LC/PC	LC/APC	DC	BP
OA 04-18-LA-DC	57004449	4	18				LC/APC	DC	BP
OA 04-21-W-SA-LP-LA	57004295	4	21	W	SC/APC	LC/PC	LC/APC		BP
OA 08-21-W-SA-LP-LA	57004294	8	21	W	SC/APC	LC/PC	LC/APC		BP
OA 16-21-W-SA-SP-SA	57002009	16	21	W	SC/APC	SC/PC	SC/APC		BP
OA 32-21-W-SA-LP-LA-DC	57004317	32	21	W	SC/APC	LC/PC	LC/APC	DC	BP
OA 32-21-W-SA-LP-LA	57003982	32	21	W	SC/APC	LC/PC	LC/APC		BP
OA 64-21-W-SA-LP-LA	57004170	64	21	W	SC/APC	LC/PC	LC/APC		BP
OA 64-0-W-SA-LP-LA-DC	57004546	64	0	W	SC/APC	LC/PC	LC/APC	DC	BP



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	1550
	Optical input level	dBm	-5	3
	Optical output power (at each output)	dBm		14-21 tunable
	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
	Isolation DS/US	dB		> 50
	Optical Switch (MEMS) Insertion loss Switching time	dB ms		0.5 5
General features	Remote management		Web GUI / SNMP V2 (Ethernet port)	
	Power supply	V AC	170	230
		VDC	40	48
	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	
	21 dB	50 dB	-9 dBm (noise) -29 dBm (noisefree)