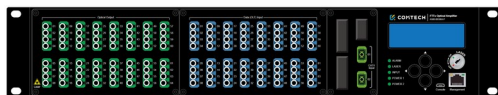


OAEC OPTICAL AMPLIFIER FOR CATV OVERLAY PURPOSES



- Designed for CATV overlay purposes on PON systems
- Independent local electronic configuration interface
- Remote management
- Powering redundancy
- Optional 2 inputs for optical redundancy

GENERAL DESCRIPTION

The OAEC optical amplifier is designed for adding RF overlay signals to PON networks. Thanks to the redundancy capabilities of the powering and optical input it provides excellent robustness. This is completed by the remote management done via either SNMP or Web based interfaces in order to set and check the most important working parameters, such as input and output optical powers, powering and cooling status, pump laser currents or temperatures. The device can be powered either by -48 V DC or by 230 V AC - the power supply can be changed by the user providing the highest flexibility.

TECHNICAL SPECIFICATIONS

Optical parameters

Wavelength (CATV input) [nm]	1540...1563
Input optical power (per input) [dBm]	-10...+10
Output optical power (per output) [dBm]	0
Noise figure [dB]	5.0 ⁽¹⁾
Polarization dependent loss [dB]	0.3
Polarization dependent gain [dB]	0.4
Polarization mode dispersion [ps]	0.3
Output-to-input isolation [dB]	>30
Pump power leakage [dBm]	<-30
Optical connector	SC/APC, LC/APC, EURO2000

Interface parameters

SNMP interface	100BaseT Ethernet, RJ-45, SNMPv1
Service port	RS232, RJ-45

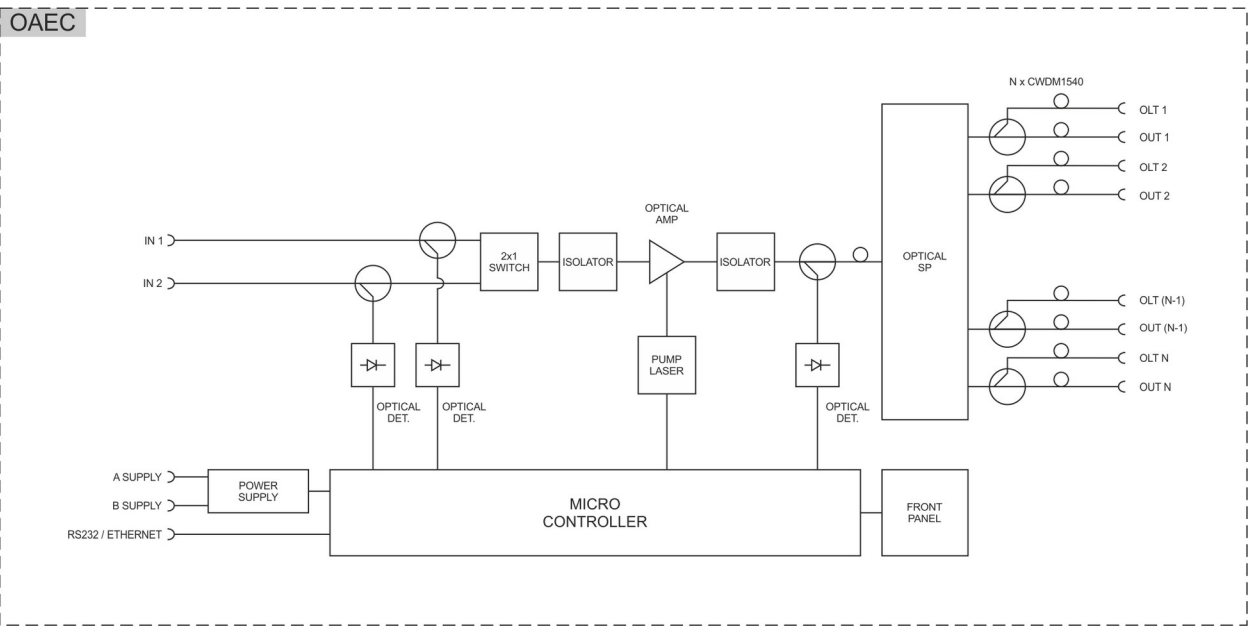
General parameters

Input power supply voltage [V]	90...265 AC or 30...72 DC
Power consumption [W]	50
Operational temperature range [°C]	-5...+65
Dimensions [mm]	483x329x89

(1) At maximal gain and output power

Specifications are subject to change without notice!

BLOCK DIAGRAM (DUAL INPUT VERSION)



ORDERING INFORMATION

O	A	E	C	-	X	X	X	X	X	X	-	X	-	X	X												
					Number of inputs						Optical connector (OUT and OLT)																
					1	1 input										SA					SC/APC						
					2	2 inputs with redundancy switch										LA					LC/APC (Recommended type)						
					Number of outputs						EU					EURO2000											
					008	8 outputs										Power supply											
					016	16 outputs										A						AC 230V					
					032	32 outputs										D						DC -48V					
					064	64 outputs																					
					Output optical power per port																						
					00	0 dBm (at 0 dBm input power)																					

Specifications are subject to change without notice!