

DATA SHEET

Headend Actives

IPCOR OA5000 Series High Power Optical Fibre Amplifier (OA)

Overview

The IPCOR OA5000 product series provide for cost-effective CATV transmission solutions and reliable cornerstones of the optical access network. Their design and compactness makes them especially suitable for FTTB and FTTH applications.

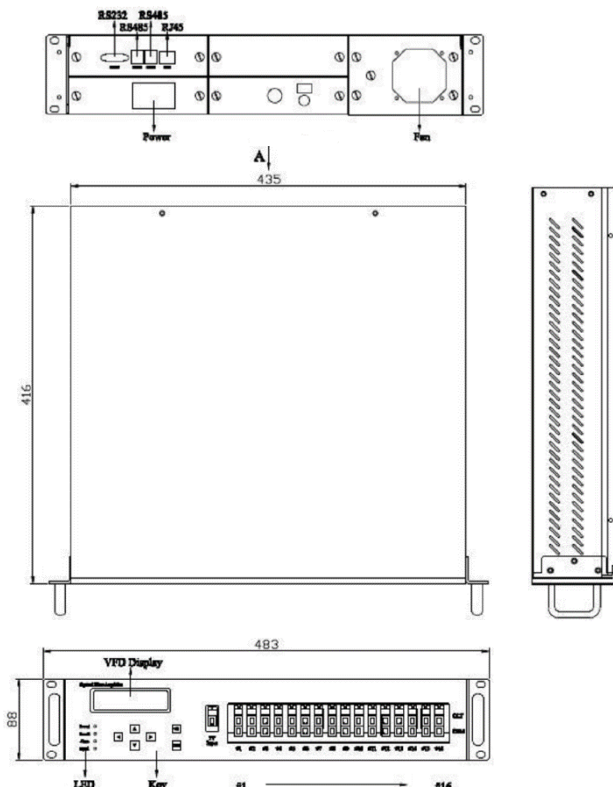
The devices consist of high quality, reliable pump lasers, isolators and optional WDM passives providing a versatile integrated solution for operators to scale their network growth according to demand.

Mechanical

Dimensions (Height x Width x Depth)	88 x 490 x 482	mm
Weight (each)	10 (13 with Packaging)	kgs

KEY FEATURES

- 8, 16 or 32 Output Ports;
- Adjustable Output Power via NMS or Front Panel;
- Output Automatic Power Control (APC);
- Redundant AC or DC Powering;
- Optimal Heat-Dissipation Design;
- Built in WDM (Optional), for PON Applications;
- Supports SNMPv2 protocol.



Optical Amplifier Specifications

Performance Parameter	Specification	Unit	Conditions
TV Wavelength Range (λ_1)	1545 ~ 1565	nm	
TV Optical Input Range (Pin)	-5 ~ +10	dBm	$\lambda = \lambda_1$
TV Optical Output Range	Typical: 14, 17, 21, 22	dBm	APC
Total Output Optical Power	Max: 37	dBm	
TV Output Port Number(N)	8, 16, 32		
Noise Figure (NF)	≤ 5.5	dB	Pin=0dBm
Optical Output Stability (Δ)	≤ 1.2	dB	
PON Wavelength (λ_1/λ_3)	1310 \pm 50/1490 \pm 10	nm	
PON Port WDM Optical Insertion Loss	≥ 1.5	dB	$\lambda = \lambda_2, \lambda_3$
Return Loss	≥ 50	dB	$\lambda = \lambda_1$
Polarization Related Gain	≤ 0.5	dB	$\lambda = \lambda_1$
Polarization Mode Dispersion (PMD)	≤ 0.8	ps	$\lambda = \lambda_1$
Power Consumption	<100	W	

Optical Port Definition	Connector Type
1550 Input Connector	SC/APC
1310/1490/1550 –Common Port Connector	LC/APC
1310/1490- PON Port Connector	LC/UPC

Operating Condition	Specification
Operation Temperature	-5 to +45°C
Relative Humidity	10 to 95%RH (+25°C)
Power Supply	DC: -40V to -57V AC : 170~264VAC, 50Hz

Note: Specifications May Vary Slightly According to Model

Australia Office
2 Anzed Court
Mulgrave VIC 3170
Australia
T. +61 3 8542 0600
F. +61 3 8542 0629
E. sales@c-cor.com.au
www.c-cor.com.au

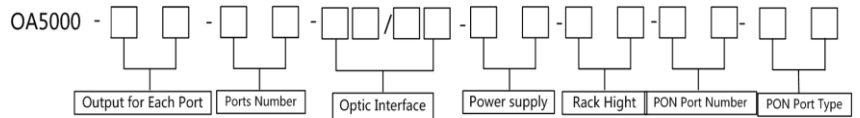
Regional Representation
Pakistan/ Korea
E: sales@c-cor.com.au

© C-COR Broadband 2016.
Issued Jun. 2016.

Due to ongoing product development,
technical specifications are subject to
change without notice

General Features

Available Options:



Ordering Information

C-COR P/N: A380.9.xx.op.c.p.w

Where:

- 'xx' = Output Power per Port in dBm;
- 'op' = Number of Output Ports;
- 'c' = SC/SC (1) or SC/LC (2) APC OA Interface;
- 'p' = DC (1) or AC (2) Power Operation;
- 'w' = with WDM (1), without WDM (2) PON Port.

e.g.

P/N: A380.9.13.32.2.2.1

Configuration: OA5000-13-32-SA/LA-BB-42-32-LU

32x13dBm Output Power; SC/APC in LC/APC Out, dual 220V AC power supply, built in WDM (LC/PC In/Out); -5~+10dBm input power; SNMP; 19", 2RU.

P/N: A380.9.23.16.1.1.2

Configuration: OA5000-23-16-SA/SA-BB-42

16x23dBm Output Power; SC/APC in SC/APC Out, dual - 48VDC power supply, no WDM; -5~+10dBm input power; SNMP; 19", 2RU.

Contact your local sales representative for product availability in your area and for other interface and option requirements.