



+10dBm

**19" 1RU rack mount 1550nm Optical Amplifier with up to 16 SC/APC output ports, WDM and redundant power supply
IDLF-OAM101-SCAXX-XPC
Items: 5892-5967**

Inverto's Unifiber™ EDFA product range of optical amplifiers is based on state-of-the-art laser pumps and world-class 1550nm Erbium-Doped Fiber, suiting a variety of video distribution applications and including models with integrated wave length multiplexer (WDM) that can overlay 1310nm/1490nm data signals from a GPON/EPON OLT device over a single fiber port.

Engineered to last, the Unifiber™ EDFA's smart power management and thermal design ensures long lifetime, high reliability and stable performance of the laser pump. The front panel's large LCD display provides easy to use configuration and setup menu and serves the user with operation status information and/or warning alerts whenever needed. Delivered in a 19" 1RU rack mount housing with two hot-swappable power supply units, the Unifiber™ EDFA products are easy to integrate and guarantee that your signal distribution is always on.

Unifiber™ EDFAs highlights

- Low noise, high optical output power amplifier
- Optical input power range -10 dBm to +10 dBm, SC/APC connector
- Automatically controlled output power, SC/APC connectors
- CWDM for multiplexing GPON/EPON data signals (1310/1490nm) with the video RF optical signals (1550nm)
- Status LED indicators and LCD display
- High-efficiency, hot swappable double power supply guaranteeing uninterrupted operation
- Network management interface (SNMP)



Technical specifications

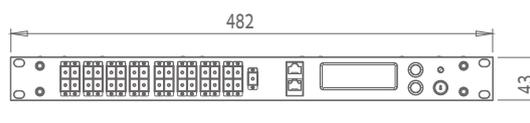
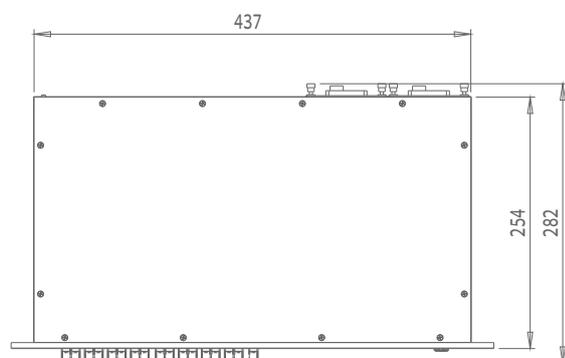
IDLF-OAM101-SCAOx-xPC

Optical

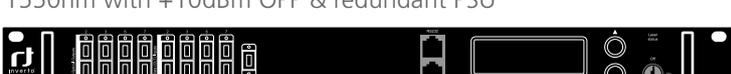
Output optical power (per port)	+10dBm typ., +9.5dBm min.
Operating wavelength	1550 nm for the RF signals; 1310/1490 nm for the OLT signals (WDM models)
Ports	1x optical RF In, 1/4/8/16x optical RF Out, 1/4/8/16x optical OLT In (WDM models)
Connector type (optical in/out ports)	SC/APC
Input RF power	-10 dBm ~ +10 dBm
Noise Figure	4.5 dB typ., 5.5 dB max. (@ input power 0 dBm, 1550 nm)
Port uniformity	0.5 dB max.
WDM insertion loss (1310/1490 nm)	<1 dB
Return loss	>55 dB

General

Display and control switch	LCD, On/Off switch, Status led: Green=OK, Red = Off / Laser error
Network management interface	SNMP, RJ45
Serial data interface	RS232
Input voltage level	90 VAC ~ 240 VAC, 50 Hz/60 Hz
Current consumption	0.4 A max.
Input power consumption	30 W max.
Working temperature	-5°C ~ +65°C
Storage temperature	-40°C ~ +80°C
Relative humidity	5% ~ 85%
Chassis dimensions	19" 1RU, 483 mm × 254 mm × 44 mm



Ordering information for +10dBm models

Item	Description	Model reference
5966	Unifiber™ EDFA 19" Optical Amp. with 1 SC/APC output ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCAO1-OPC
		
5894	Unifiber™ EDFA 19" Optical Amp. with 4 SC/APC output ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCAO4-OPC
		
5893	Unifiber™ EDFA 19" Optical Amp. with 8 SC/APC output ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCAO8-OPC
		
5892	Unifiber™ EDFA 19" Optical Amp. with 16 SC/APC output ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCA16-OPC
		
5967	Unifiber™ EDFA 19" Optical Amp. with 1 SC/APC output ports+WDM ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCAO1-WPC
		
5944	Unifiber™ EDFA 19" Optical Amp. with 4 SC/APC output ports+WDM ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCAO4-WPC
		
5943	Unifiber™ EDFA 19" Optical Amp. with 8 SC/APC output ports+WDM ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCAO8-WPC
		
5942	Unifiber™ EDFA 19" Optical Amp. with 16 SC/APC output ports+WDM ports, 1550nm with +10dBm OPP & redundant PSU	IDLf-OAM101-SCA16-WPC
		

For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products. Inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and / or features without notice.