IPITEK
INTEGRATED PHOTONICS TECHNOLOGY
ISO 9001 Registered

ADVANCED SERVICES TRANSPORT

OPTICAL FIBER AMPLIFIER

RMC-OFA

Features and Benefits

- **Optical Amplification at 1550 nm**
- **Optimized for up to 20 dBm**
- **Ideal for multiple split systems**
- **Excellent Optical Return Loss**
- **Up to 2 uncooled lasers**
- **AGC, APC, pump current Control Modes**
- **Full HMS SNMP monitoring system**

The RMC-OFA is a high performance stand alone EDFA designed for use in 1550 nm architectures where it is specifically designed for operation when gain flatness is not required. The unit maximizes system performance and flexibility by providing a choice of automatic gain control (AGC), APC or pump current. The unit provides system operators with the option of selecting either constant composite output power or constant gain per wavelength. The amplifier noise figure is less than 5 dB for optimum performance.

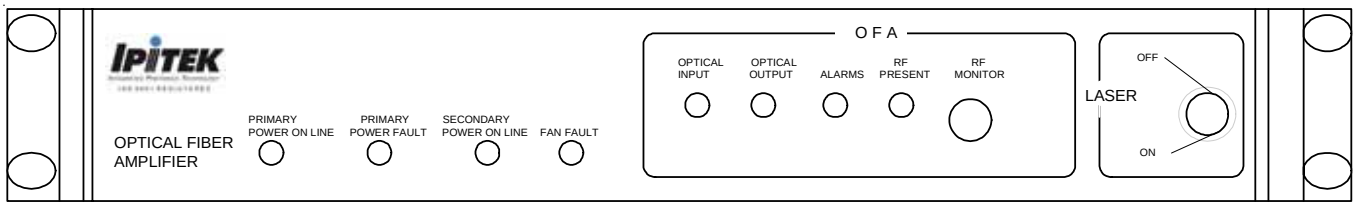
The wide range of input power allows for operation at numerous locations in a system. Input power at the output is capable of handling composite input levels down to -10 dBm. Operation as a midspan amplifier accepts levels 6 dB lower and when used as a preamplifier at the input to a DWDM Demultiplexer can be 10 dB to 15 dB lower.

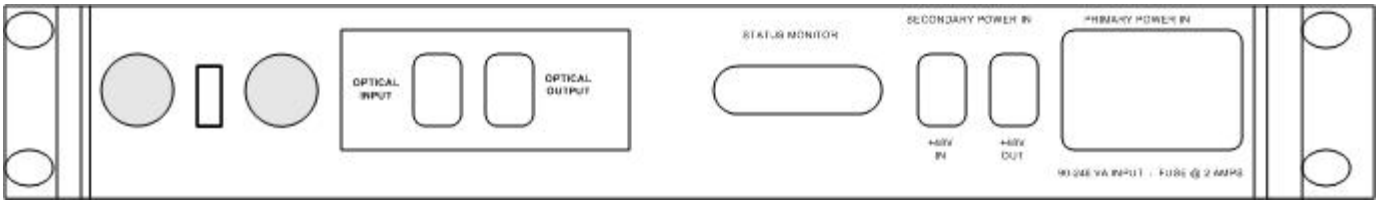
Engineered with the latest low power components, the RMC-OFA is both energy efficient and fully hot swappable. The internal control system provides adjustments with the integrated software, using the remote or local network management control. RMC-OFA also includes a user selectable manual gain control that may be utilized instead of AGC. A front panel test point is provided for measurement of the optical input.

Front panel indicators also provide immediate visual indication for Laser On and a summed Fault Alarm. An onboard micro-controller provides complete monitoring and control of the unit. Software design includes both function control and unit monitoring. The controller system also provides alarm processing and status monitoring functions. These signals are routed to the Local Craft Interface as well as remote management. The management system provides an HMS-SNMP compliant interface to a higher level element manager, such as the IPITEK Node Wizard system or to HP OpenView or Castle Rock SNMPc.

The rack mount unit includes an internal power supply. Both AC and DC powering are available.

IPITEK FIBER OPTIC HFC ACCESS





SPECIFICATIONS

Optical Performnance:

Optical Noise figure:	5.0 dB @ P=0 dBm
Optical Wavelength Range:	1550 nm +/- 10 nm
Optical Power Stability:	+/- 0.5 dB
Optical Input Range:	-5 to +2 dBm
Optical Return Loss:	40 dB - Input & output

Mechanical/Electrical:

Optical Connectors:	E-2000/APC SC/APC Optional
RF Connector:	Type F (Optional Rx)
Power:	Primary: 110/220 VAC Secondary: 48 VDC

Evironmental:

Operating Temperature:	0^{o}C to 65^{o}C
Humidity:	95%, non-condensing.
Storage Temperature:	-40^{o}C to $+70^{o}$C

Monitored Paramenters

Optical Input
Optical Output
Pump Laser Current
Pump Laser Temperature

Menchanical:

Weight: 8.6 lb.
Dimensions: 1.75" H x 14" D x 19" or 23" W

ORDERING INFORMATION

RMC-OFA	-	PXX	-	XX	-	XX
Gain Flattened Optical Amplifier		Optical Output Power P13 = +13 dBm P17 = +16 dBm P19 = +19 dBm		Connector SC =SC/ACP E2 = E2000/APC		Rack Size 19 = 19in. rack 23 = 23in rack

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