

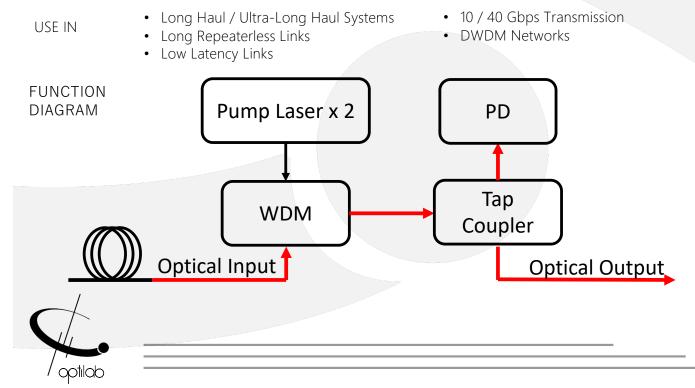


DEVICE 10 dB Gain Raman Amplifier

OVERVIEW Optilab Raman Amplifier Rackmount Units are designed for distributed Raman amplification in a narrow spectral range in C band. Configured with two high power pump laser diodes at 1431 nm, the RA-1431-M unit provides over 10 dB On/Off gain flattened amplification. The unit includes micro-controller based laser current control circuitry for enhanced stability and reliability. RA-1431-M is an ideal amplifier for single-channel to multi-channel long-haul transmission and fiber sensor systems. It is equipped with LabVIEW (TM) remote user interface for easy operation. Contact Optilab for more information.

FEATURES

- >10 dB Gain @ -15 dBm Input
 >13 dB Gain @ -35 dBm Input
- Excellent Stability
- LabVIEW Remote Interface





SPECIFICATIONS

GENERAL

Pump Wavelength	1431 nm	
Pump Power	Up to 400 mW	
Input Signal Level	-40 to -10 dBm	
Averaged On/Off Gain @ -15 dBm Input	> 10 dB	
Averaged On/Off Gain @ -35 dBm Input	> 13 dB	
Gain Flatness	< ±1 dB	
Signal Insertion Loss	< 1 dB	
Output Stability	< ± 0.1 dB for 24 hours	
Degree of Polarization	< 5%	

Operating Temperature	-5°C to + 55°C	
Storage Temperature	-40 °C to 80 °C	
Operating Humidity	0% to 90% Relative Humidity	
Power Supply	110 - 240 VAC	
Remote Port	USB 2.0	
Dimensions	200 mm x 120 mm x 25 mm	
Optical Input Fiber	SMF-28 with 3 mm Jacket (no connector)	
Output Fiber Connector	FC/APC	

MECHANICAL





LabVIEW Remote Control Interface

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7-1	Pump1 Current	mA
Com Number	Pump2 Current	mA
K COMI	Pump1 Limit	mA
	Pump2 Limit	mA
Output Power	Output Power1	dBm
dBm	Output Power2	dBm
	Current1 500	Set
Stop	Current2 2 500	Set

Typical Application Diagram

