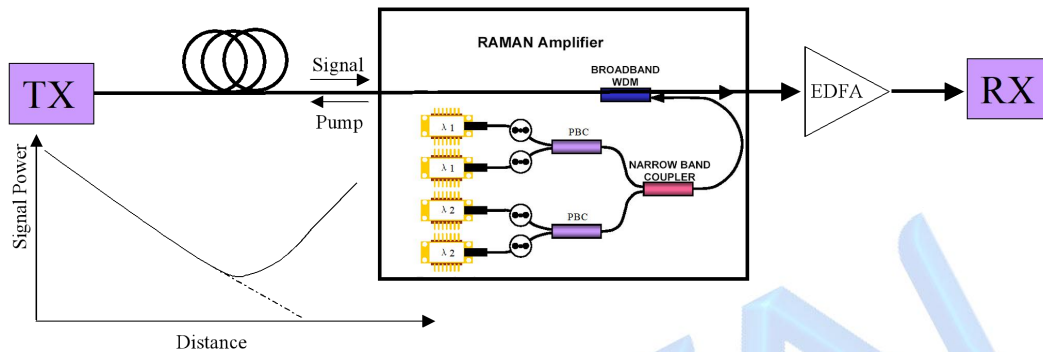


## Product Introduction

This product is a high-power Raman Amplifier module which is used in low noise, long span or high-speed optical transmission system. Applying transmission fiber as the gain medium to form distributed amplification which can reduce system noise and get best gain and noise index.

Figure 1- 1 System Function Diagram



## Features

Features:

- Distributed low-noise amplification
- Easy control and operate: Dual CPU process control Loops
- Interface respectively
- High stability and reliability
- Single channel, DWDM or C+L band is available
- Intelligent temperature control system: power consumption and hot
- Radiation reduce 30% than common products
- Pump polarization-Independent design

## Technical Specifications

### Environmental Requirements

Table 2-1 Environmental Characteristics

Parameters	Min.	Max.	Unit
Working Temperature	-5	+60	°C
Storage Temperature	-40	+80	°C
Humidity	5	85	%

Note: non-condensing

### Mechanical/ Power/ Interface Characteristics

Table 2-2 Mechanical/ Power/ Interface Characteristics

Parameters	Min.	Typ.	Max.	Unit
Size	1U H×D×W≤44×236×483			mm
Weight	-----	-----	7	Kg
Power Consumption <sup>(1)</sup>	-----	-----	18	W
Cooling	Air cool fans			
Power Supply <sup>(2)</sup>	85/170	110/220	132/264	VAC
Interface	RS-232, Ethernet			

(1) Actual consumption depends on the output power and environment temperature.

(2) 110VAC, 220VAC and -48VDC is optional.

### Optical Specifications

Table 2-3 Optical Characteristics

Parameter	Symbol	Min	Typ	Max	Units
Operating wavelength	$\lambda_c$	1525	1550	1565	nm
Pump wavelength	$\lambda_p$	1425	----- -	1505	nm
Pump output power (1)	Po	-----	500	1000	mW

ON/OFF Gain (1)	G	6	----- -	15	dB
Gain Flatness (2)	FL	-----	1	2	dB
Polarization Dependent Gain	PDG	-----	----- --	0.3	dB
PMD	PMD	-----	----- --	0.3	ps
Relative Noise Figure	NF	-----	----- -	0	dB

(1): Optional.

(2): Test at 0 dBm input.

