

# Multi-Channel Raman Card

## ■ Product Description

RAMAN Amplifier is used for optical signal amplification of ultra-long-distance dense wavelength division multiplexing (DWDM) optical transmission systems.

The product uses multi-pump laser multiplexer technology to achieve gain-flat, low-noise optical signal amplification in the C-band range through a combination of different types of pump lasers and fiber type matching.

For laser safety reasons, the Raman amplifier is designed with an automatic pump laser off function. The laser output can be automatically turned off according to the connection state of the input fiber to ensure personal safety. The product works in ACC mode, which can adjust the working current of the pump laser, and monitor the key information such as pump laser temperature and module temperature in real time.

## ■ Product Applications

- Long haul DWDM network
- Other optical network



## ■ Product Features

- Support forward or backward amplifier
- Support 6~10dB Gain
- Support input port fiber connection status monitoring to ensure safety
- Support pump laser operating current adjustment

## ■ Performance Index

Parameters	Unit	Symb	Min	Typ	Max
Working mode	-----	-----	-----	ACC	-----
Operating Wavelength	nm	$\lambda_c$	1528	1550	1564
Pump Wavelength	nm	$\lambda_c$	-----	1425&1455	-----
Input Power	dBm	Pi	-38	-----	-----
On-off Gain	dB	G	-----	-----	10
Noise Figure	dB	NF	-----	-----	3
Flatness	dB	GF	-----	-----	3
PDG	dB	PDG	-----	-----	0.5
PMD	ps	PMD	-----	-----	0.5
Consumption	W	P	-----	-----	25

Memo: Optic connector in default is LC/APC.