

## **RMAPD-2-2-1-2 Raman Laser Receiver & Amplifier Module**



### **Description:**

APD modules enable very low light levels to be detected quickly and simply in a variety of applications such as laser radar, range finding, data transfer or biomedical analysis.

The APD modules are based on low-noise avalanche photodiodes made of either silicon or InGaAs with a built-in pre-amplifier and high voltage supply. A temperature compensation function allows the APD to be operated at constant gain across a wide operating temperature range. Also the gain value is adjustable by remote software Control. Users can set the values depending on the intensity of the laser.

### **Feature**

- High Gain
- High Responsibility at SR and ASR laser
- High Sensitivity at SR and ASR laser
- Long or Short Wavelength Available
- Free space(Optional)

### **Applications**

- Raman Sensor
- OTDR
- Test & Measurement
- Fluorescence
- Range finding/Lidar
- High speed Weak signal Detection

### **Specifications**

Specification	Typical Value
Gain Factor	0-100
Bandwidth	0.1dB Bandwidth >50 MHz 3dB Bandwidth >100 MHz
Sensitivity	< -45 dBm
Power Supply of Amplifier	+12V /0.15 A -12V/0.15 A
Power Supply of APD	220V /0.5A
Package Size	155mm*135mm*40mm
Operation Wavelength	400-1100nm SI APD
	1000-1700nm InGaAS APD
Signal Output Interface	SMA/SMB
Fiber Type	MM Fiber (50/125um or 62.5/125um)
Fiber optic Connector	FC/APC
Communication Interface	USB2.0
Operation Temperature	-20-+45℃
Store Temperature	-40-+85℃

## Ordering Information

Wavelength			Optic Interface		
1.400~1100nm		Software		0.Free Space	
2.1000~1700nm		1.with(Adjustable Gain)		1.FC/UPC	
		2.without(Fixed Gain)		2.FC/APC	
Electronic Interface				3.SC/UPC	
1.SMB				4.SC/APC	
2.SMA				6.LC/UPC	
3.BNC				7.Others	