

100G 1310nm SOA Optical Amplifier Board FWSOA14B

100G 1310nm SOA Semiconductor Optical Amplifier board is a semiconductor-based optical amplification module developed by FIBERWDM to address the amplification needs of O-band optical signals. It is compatible with 100G. The gain bandwidth ranges from 1290nm to 1330nm. The single board can simultaneously amplify two channels of business signals. It can be used in various application scenarios, including information security systems and data transmission systems.

Product Introduction



Figure 1: SOA Amplification Board

Product Features

- ◆ Supports optical amplification in the O-band.
- ◆ Supports 100G
- ◆ Supports a maximum saturated output power of +10dB and a minimum input power of -20dB.
- ◆ Supports SNMP-based unified network management platform with CLI (telnet and console), Web, and NetView (graphical interface).
- ◆ Monitoring capabilities include pump drive current, pump output power, pump

switch, pump temperature, input optical power, output optical power, and module temperature.

- ◆ Supports adjustable pump switch and input/output optical power settings.

Product Specifications

System Parameters		Technical Specifications
Wavelength Range		1290nm ~ 1330nm
Input Power Range per Channel		-20dBm ~ +6dBm
Output Power Range per Channel		-6dBm ~ +10dBm
Gain		14dB ~ 17dB
Noise Figure		8dB
Gain Flatness		3.0dB
Uniformity		1.0dB
Stability		0.5dB
Bias Current		300mA
Polarization Dependent Gain		2.0dB
Dimensions		156 (W) × 20 (H) × 225 (D) (mm)
Environmental Requirements	Operating Temperature	-10°C ~ 50°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% non-condensing
Safety and EMC		Compliance with FCC, UL, CE, TUV, CSA standards
Power Consumption		<24W

Order Information

Part No.	Specifications
FWSOA14A	100G SOA Card 1channel 100G 1310nm SOA optcal Amplifier G14/10 Gain10dB,Max output 10dB, LC/UPC used in FW6600 series take one slot
FWSOA14B	100G SOA Card 2channel 100G 1310nm SOA optcal Amplifier G14/10 Gain10dB,Max output 10dB, LC/UPC used in FW6600 series take one slot