

# 10dB Gain 1310nm Semiconductor Optical Amplifier (SOA)

Solutions for Metro, Regional & Long Haul



## Description

Semiconductor optical amplifier (SOA) use the semiconductor as the gain medium, which are designed to be used in general applications to increase optical launch power to compensate for loss of other optical devices. Inimitable APC circuit ensures the stability of output power.

The optical circuit is specifically designed for digital optical fiber communication systems and has the following characteristics.

- (1) Covers a low dispersion wavelength of 1310 nm
- (2) A wide range of input power; output power is adjustable

## Features

- OEM available
- High-precision APC circuit
- High saturated output power
- Bellcore GR-1312-CORE compliant
- Ethernet, RS-485 and RS-232 interface
- Flexible mechanical and circuit structure
- Support Telnet and SNMP network management

## Application

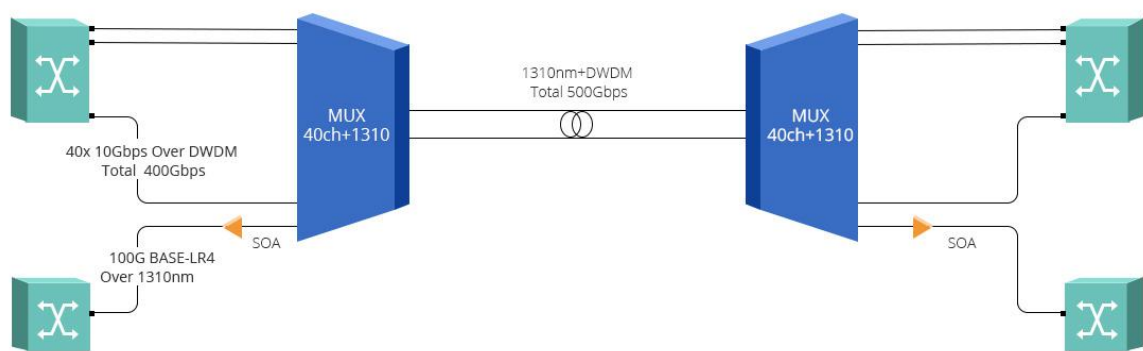
- 100G optical transmission system

Product Specifications

Amplifier Type	SOA	Operation Wavelength	1310nm
Optical Gain	10dB	Input Power	-20dBm~+6dBm
Operation Mode	APC	Saturated Output Power	8dBm
Noise Figure	6dB (Typical)	Return Loss	45dB
PDG	0.3dB	PMD	0.5ps
Optical Connector	LC/UPC	Management	SNMPV1
Housing	Pluggable Module (Occupies 2 slots in FMT chassis)	Chassis Type	1U, 2U, 4U
Operation Temperature	-5° C~60° C	Storage Temperature	-40° C~80° C

500Gbps DWDM Network Service by SOA Amplifier

SOA (Semiconductor Optical Amplifier), implemented between the 1310nm multiplexer port and the LR4 transceiver, are amplifying the 1310nm spectrum. It can be used in the 10G/100G system, suitable for system design conveniently.

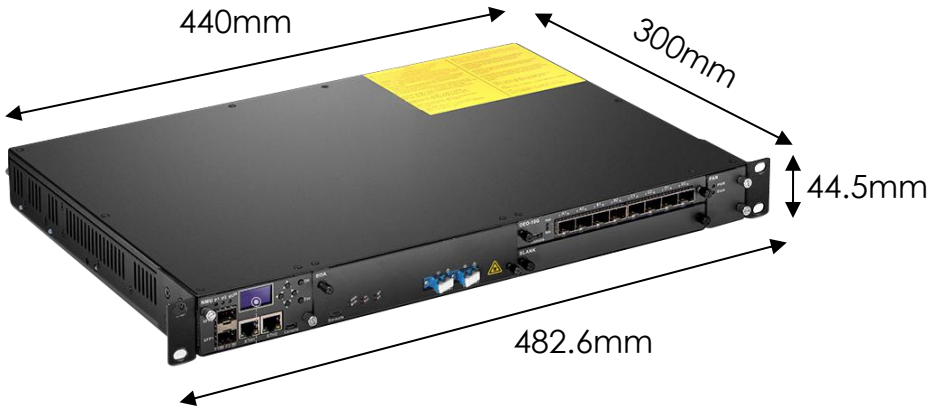


Dimensions

4-slot 1U managed chassis, supports up to 4x multiplexer/EDFA/OEO/OLP card with accessories;

- Width: 482.6mm (19")
- Height: 44.50mm (1.75")
- Depth: 300mm (11.81")

SOA plug-in card occupies two slots.



Ordering Information (1310nm Semiconductor Optical Amplifier)

ID	Model	Gain (dB)	Wavelength (nm)	Operation Mode	Housing
<a href="#">#72604</a>	FMT10dB-SOA	10	1310	APC	Pluggable Module
<a href="#">#69350</a>	FS-SOA	10-14	1290-1330nm	AGC/APC	Pluggable Module/1U 19" rack mount



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