

1 Channel 40G&100G SOA Amplifier

SOA is an O-band semiconductor optical amplification board launched by Sintai Communication Co.,Ltd.; its main function is to amplify the optical signal within the range of 1260~1360nm, with the maximum rate support of 160Gb/s. It has characteristics such as stable output power, low output noise and low polarization dependent gain. The single-board supports the access to 2-channel independent optical signals. It's suitable for the amplification for 40G or 100G small power signals in the construction of security system.

Product Features

- 1U rack mount and pluggable chassis. 4 function board slots are supported and boards can be flexibly configured based on requirements.
- Support optical signal amplification
- The optical ports are at the front and power units are at the back, which can ensure safe use
- Dual power hot backup: support double -48V, double 220V or one -48V and one 220V power supply
- Simple structure, low power consumption, long lifespan and low cost
- Easy maintenance and network management is optional

Technical parameters

Parameter		Minimum Value	Normal Value	Maximum Value
Working wavelength range	40GE	1260nm		1340nm
	100GE	1290nm		1320nm
Input optical power range		-20dBm		-10 dBm
Saturated output power			10 dBm	
Gain			14dB	
Noise			7.5 dB	
Polarization dependent gain				2dB

Occupied slot number	Occupy 1 slot, applicable to the platform of the whole OTNS8600 series
Network management function	<ul style="list-style-type: none">● Support time monitoring of the port working state, including: input optical power, output optical power, gain, temperature, etc● Support adjustable APC gain● Support adjustment of output optical power range and input optical power threshold
Optical interface	All interfaces are LC type
Typical power consumption	20 w
MTBF	> 100000 hours