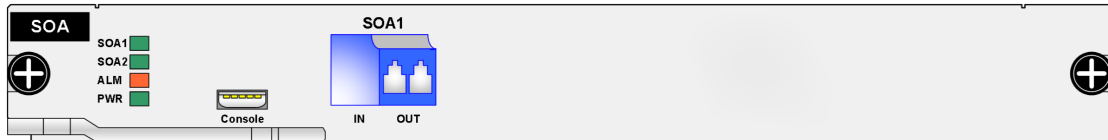


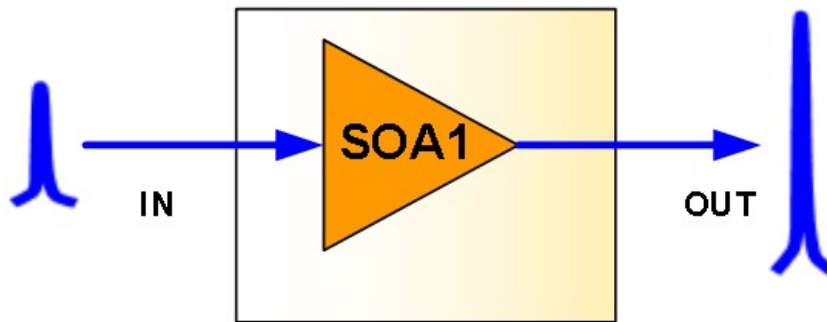
SOA: 100G semiconductor optical amplifier board

SOA is an O-band semiconductor optical amplification board. 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 1-4channel independent optical signals. It's suitable for the amplification for 40G or 100G small power signals in the construction of security system.

Product diagram



Functional structure



Product specification

Parameter		Minimum Value	Normal Value	Maximum Value
Work 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 OTN1000 series			
Network management function	<ul style="list-style-type: none"> ● Support real-time monitoring of work 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			