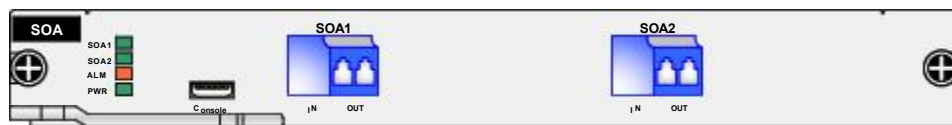


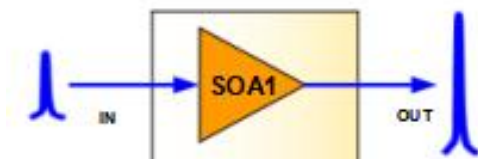
SOA: Semiconductor Optical Amplifier Card

SOA is an O-band semiconductor optical amplification card launched by Gigalight. Its main function is to amplify the optical signal within the range of 1260~1360nm, with the maximum rate support of 160Gbp/s. It has characteristics such as stable output power, low output noise and low polarization dependent gain. The single-card supports the access to at most 4-channel independent optical signals. It's suitable for the amplification for 40G or 100G small power signals in the construction of security system.

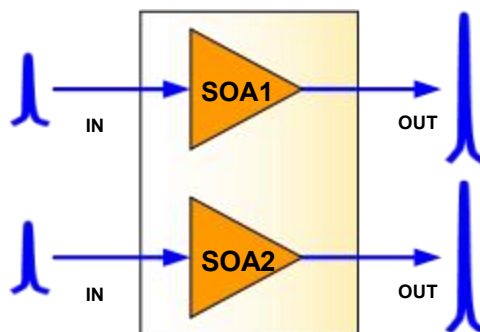
Product diagram



Functional structure



(TYPE ONE: 1 Channel SOA)



(TYPE TWO: 2 Channel SOA)

Product specification

Parameter		Minimum Value	Normal Value	Maximum Value
Work wavelength range	40GE	1260nm		1340nm
	100GE	1290nm		1320nm
Input optical power range		-17dBm		-4 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		● 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		20w (Dual SOA card)		
MTBF		> 100000 hours		