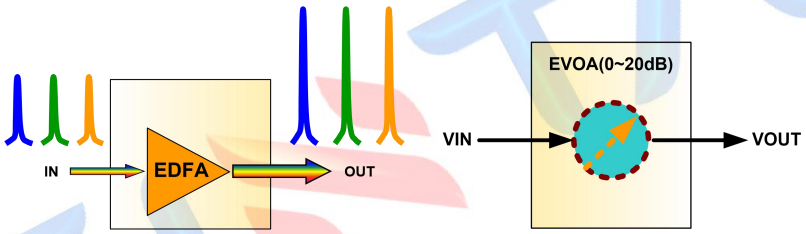
EDFA:Erbium-doped fiber amplification board

EDFA is an erbium-doped fiber amplification board launched by Sintai Communication Co.,Ltd.; its main function is to compensate the power of the signal light in the transmission link, and it can amplify the optical signals of up to 48 channels(channel interval of 100 GHZ) or 96 channels (channel interval of 50 GHZ) at C band at the same time. It has characters of flat gain, locked gain, low noise figure, etc. and it's a indispensable important component for DWDM system, future high speed system and all-optical network long-distance transmission.

Product diagram



Functional structure



Product specification

Working wavelength range	**Standard type:**1528nm~1561nm,Applicable to 40wavelength (100 GHZ) or 80 wavelength (50 GHZ) DWDM systems		
	Extension type:1528nm~1568nm,Applicable to 48 (100 GHZ) or 96 wavelength (50 GHZ) DWDM systems		
EDFA type	BA (power amplifier)	LA (line-amplifier)	PA (pre-amplifier)
Minimum input optical power	-32 dBm	-32 dBm	-32 dBm
Maximum output optical power	+20dBm	+20dBm	+17dBm
Maximum gain	20dB	33dB	30dB
Noise factor	< 5dB	< 5 dB	< 5 dB

Gain flatness	< 1.5dB	< 1.5dB	< 1.5dB
Occupied slot number	Occupy 1 slot, suitable for the platform of the whole OTNS8600 series		
Network management function	Support real time monitoring for EDFA port working state, including: optical power, optical pumping, temperature, etc		
Unique technology	Support gain locking technology, transient control technology automatic shut-off technology of output optical power		
EVOA	Built-in (optional);network management can adjust dynamic damping range of 1.5 dB~21.5 dB		
Optical interface	All interfaces are LC type		
Typical power consumption	15 w		
MTBF	> 100000 hours		