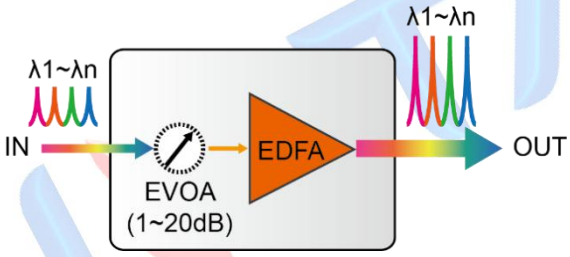
EDFA: Erbium-Doped Fiber Amplification Card

EDFA is an erbium-doped fiber amplification card 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 an indispensable important component for DWDM system, future high speed system and all-optical network long-distance transmission.

Product diagram



Functional structure



Product specification

Function	Note
Working wavelength range	**Standard type:** 1529nm~1561nm Applicable to 40 wavelength(100GHz) or 80 wavelength(50GHz)DWDM system
	Extension type: 1528nm~1568nm Applicable to 48 wavelength(100GHz) or 96 wavelength(50GHz)DWDM system
Min input optical power	-30 dBm
Max output power	+22dBm
Max Gain	30dB
Noise factor	＜5.5dB
Gain flatness	＜1.5dB
Secondary amplification	Support built-in dual pump (optional) for signal secondary amplification

Unique technology	Support gain locking technology, transient control technology automatic shut-off technology of output optical power
EVOA function	Built-in EVOA(optional);network management can adjust dynamic damping range of 1dB~20dB
Network management function	● Support real time monitoring for EDFA port working state, including: optical power, optical pumping, temperature, etc. ● Support pump shutdown threshold and automatic recovery time setting function
Occupied slot number	Support OTNS8600 series chassis, occupy 1 slot
Optical interface	LC/UPC
Max power consumption	15W
MTBF	＞100000 hours