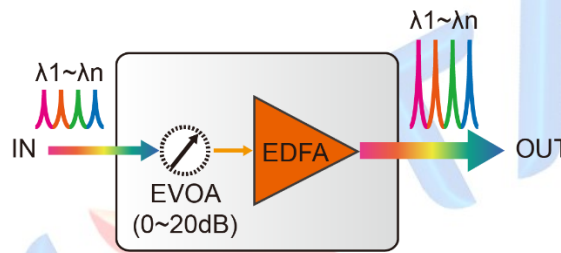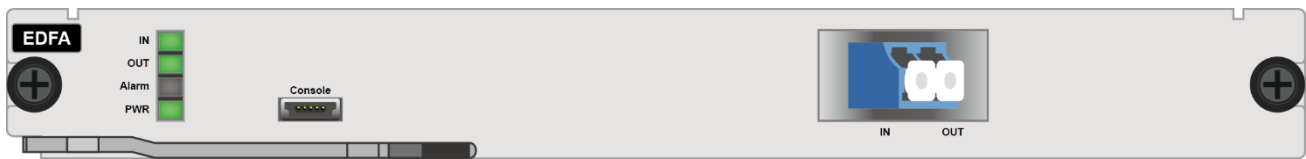# EDFA: Optical Amplifier Board

The main function of EDFA (Erbium Doped Fiber Amplifier) Optical Amplifier Board launched by Sintai Communication 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 in C-band (100 GHz channel spacing) or 96 channels (50 GHz channel spacing) at the same time, and it has the features of flat gain, gain adjustable, small noise index and other characteristics, it is an indispensable part of DWDM system and future high-speed system and all-optical network.

Product specifications

Parameter	Description			Remark
Operating wavelength range	Conventional: 1529nm~1561nm for 40-wave (100GHz) or 80-wave (50GHz) DWDM systems Extended: 1528nm~1568nm for 48-wave (100GHz) or 96-wave (50GHz) DWDM system			
Type of EDFA	20G17	20G25	20G30	Parameter can be customised
Minimum input optical power	-26dBm	-34dBm	-39dBm	
Saturated output optical power	+20dBm	+20dBm	+20dBm	
Rated gain	17dB (±3 adjustable)	25dB (±3 adjustable)	30dB (±3 adjustable)	
Gain flatness	≤1.5dB			
Coefficient of noise	≤5.5 dB			
Dual amplification	Support built-in dual pumping for secondary signal amplification			Optional configuration
Expertise	Support gain lock, gain adjustable, transient control technology, output optical power automatic shutdown			

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Parameter	Description	Remark
VOA Features	Built-in VOA, network management adjustable attenuation dynamic range 0~20dB	Optional configuration
Network management	Support real-time monitoring of EDFA operating status, including: optical power, pumping, temperature, etc.	
Number of slots occupied	Support all OTNS8600 series chassis, occupies 1 slot	
Optical interface	LC/UPC	
Maximum power consumption	15W	

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