



**SEPITAM**

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## TYPE: Sepitam-EDFA

Sepitam WDM multiplexers, including CWDM and DWDM, support various transmission rates and long-distance coverage while utilizing standard wavelengths. They enable the high-speed transmission of multiple services with optimized fiber utilization. Integration with OTN networks and the deployment of various modules such as EDFA, DCM, OTU, and etc. enhance the efficiency and performance of fiber optic networks, ensuring the quality and speed required by customers.



▶ TYPE: Sepitam-EDFA

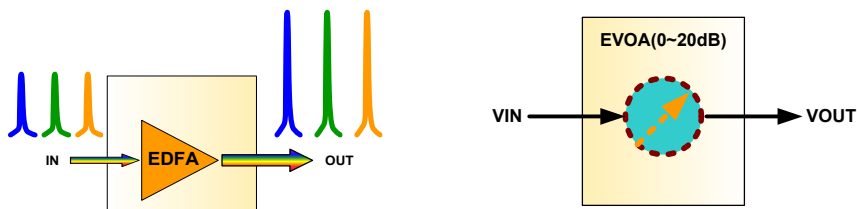
## ▶ Description:

Sepitam-EDFA is the erbium-doped fiber amplification board. Its main function is to compensate the power of the signal optical in the transmission line, and it can amplify the optical signals of up to 48 channels with 100 GHz's interval) or 96 channels with 50 GHz's interval) at C band at the same time. It has characters of flat gain, locked gain, low noise index, etc. It's an indispensable and important component for DWDM system, future high speed system and all-optical network long-distance transmission.

## ▶ Product diagram:



## ▶ Functional structure:

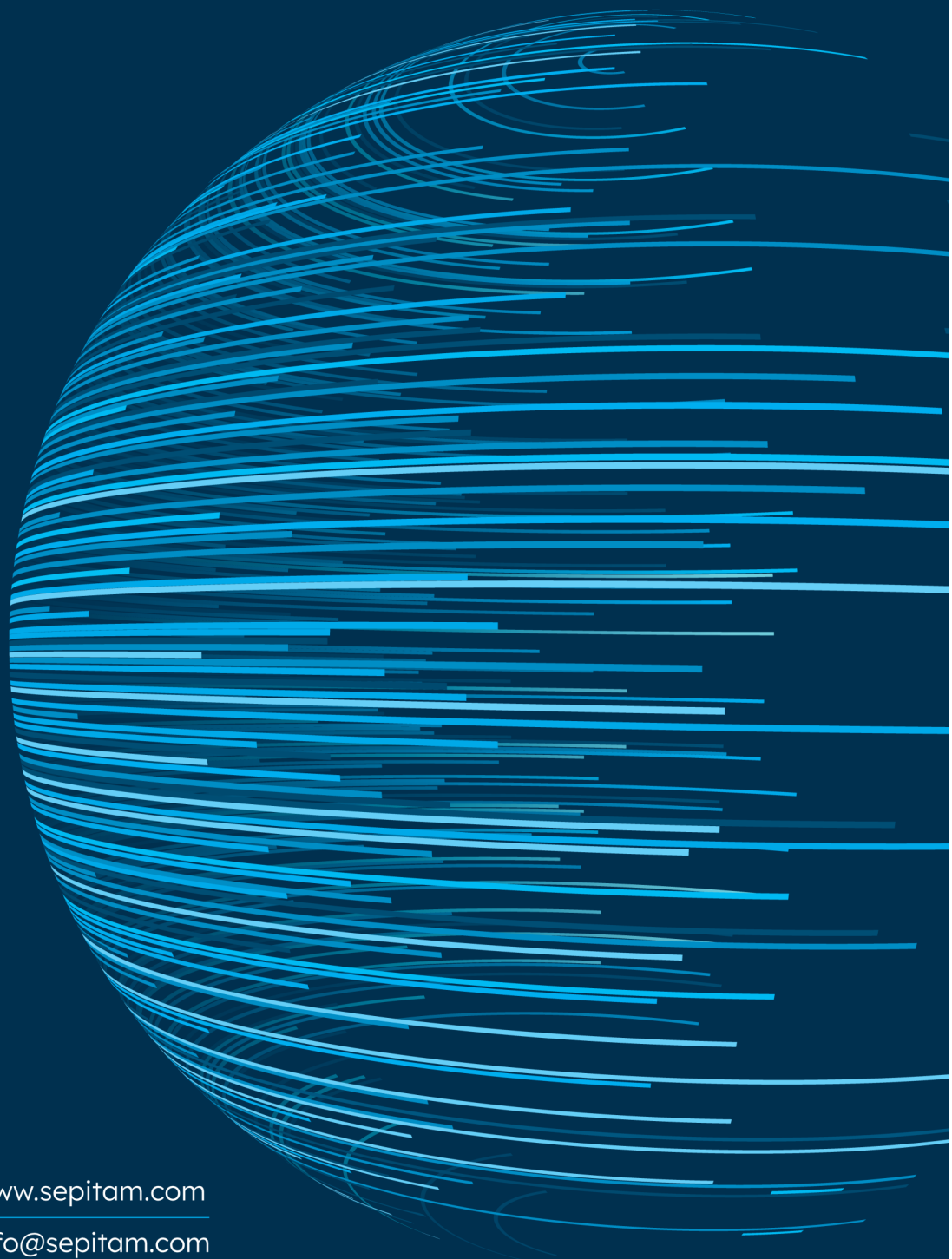




## ► Specifications:

Model	Sepitam-EDFA		
Work wavelength range	Standard type:1528nm~1561nm, suitable for 40wavelength (100 GHZ) or 80 wavelength (50 GHZ) DWDM systems		
	Extension type:1528nm~1568nm, suitable for 48 (100 GHZ) or 96 wavelength (50 GHZ) DWDM systems		
EDFA type	BA (boost 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 OTN1000 series		
Network management function	Support real time monitoring for EDFA's work 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 attenuation's dynamic range of 1.5 dB~21.5 dB		
Optical interface	All interfaces are LC type		
Typical power consumption	15 w		
MTBF	> 100000 hours		

# Technical Specification of Sepitam-EDFA



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