


**EDFA-VGA Card**

## Product Description

Variable Gain Amplifier VGA board is an important part of OSP products, the product is used in DWDM transmission system, to achieve the signal relay amplification, to extend the transmission distance.

VGA is using the erbium-doped fiber as a gain medium, 980 or 1480nm pump laser as a pump source to realize two-stage amplification, the range of the adjustable gain is 6dB. DCM is build-in. If the attenuation of DCM is less than 10dB, it will automatically fill to 10dB, in order to achieve the gain requirements to maintain the same flattened gain.

## Product Features

- Support hot swapping, low power consumption
- Low noise figure, adjustable gain
- Conform to CE and ROHS
- Support 48-wave / 96-wave DWDM signal amplification
- Provide output monitor port

## Product Specification

Parameter	Index
Operation wavelength	1529 ~ 1564nm
Input optical power	-28 ~ -1dBm
Intermediate level insertion loss	0 ~ 10dB
Saturation output optical power	+21dBm
Rated gain	22 ~ 28dB <sup>1</sup>
Noise figure	≤6dB@gain=28dB
	≤6.5dB@gain=25dB
	≤7dB@gain=22dB
Gain fluctuation	≤1.5dB
Gain setting accuracy	0.5dB
Gain flatness	1.5dB
Card width	2 standard slots
Maximum power consumption	30W
Connector type	LC/UPC

Note: The rated gain can be set as required