OA (Optical Amplifier Card)

OA (Optical Amplifier Card)

OA (Optical Amplifier Card)

Details

OA (Optical Amplifier) Board – DWDM System

The OA (Optical Amplifier) board from D-Tech Trading is designed to compensate optical signal loss in DWDM transmission systems. It supports amplification of up to 48 channels (100GHz spacing) or 96 channels (50GHz spacing) within the C-band. With features like flat gain, adjustable gain, and low noise, this board is essential for long-distance optical transmission and all-optical network deployment.

Applications

Use Cases
Used in Optical Terminal Stations (OTM) as Booster Amplifier (BA) and Pre-Amplifier (PA)
Used in Optical Line Amplifier (OLA) stations for bi-directional signal amplification
Extends transmission distance in DWDM optical networks

General Specifications

Component	Description
Slot Number	1 Slot
EDFA	Optional built-in 1× EDFA (BA / PA / LA) Optional built-in 2× EDFA (BA / PA / LA)

OSC	Optional without OSC Optional 1× OSC or 2× OSC Wavelength: 1510 nm Rate: 1.25 Gb/s
VOA	Optional built-in VOA (same number as EDFA) Location: EDFA input front Adjustment Range: 0 ~ 15 dB Insertion Loss: 1 dB
Monitoring Port (MON)	Standard, same number as EDFA Power Difference: 21 ~ 23 dB
OTDR Port	Optional, same number as line interface Wavelength: 1625 nm Channel Loss: 1 dB

EDFA Parameters

Parameter	20G17	20G25	20G30
Wavelength (nm)	1528 ~ 1568	1528 ~ 1568	1528 ~ 1568
Gain (dB)	14 ~ 20	22 ~ 28	27 ~ 33
Output Power (dBm)	? 20	? 20	? 20
Noise (dB)	5.5	5.5	5.5
Gain Flatness (dB)	1.5	1.5	1.5
Input Power (dBm)	-23 ~ 8	-31 ~ 0	-36 ~ -5
Output Detection (dBm)	-6 ~ 20	-6 ~ 20	-6 ~ 20
Reflection (dB)	-30	-30	-30
Gain Stability (dB)	±0.5	±0.5	±0.5

© 2026 | Phone: +977 9851248419 | Email: info@dtechtrading.com | Website: https://demoshop.com. All rights reserved.