WSS (9-Degree ROADM Card)

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Details

9-Degree ROADM Card (WSS)

The 9-Degree ROADM card (WSS) from D-TECH Trading integrates multiple key optical functions into a single card, including WSS, BA, PA, and OSC. It features built-in dual 1×9 WSS components with 9 ports for wavelength multiplexing and demultiplexing, supporting high-capacity DWDM and flexible optical network scheduling.

Applications

Application	Description
OADM Station	Suitable for dynamic add/drop and pass-through of optical wavelengths
ROADM Station	Suitable for dynamic pass-through and scheduling of multi-degree optical wavelengths

Technical Specifications

Parameter	Specification
Function	Supports 9-port wavelength selective MUX and DEMUX for dynamic wavelength penetration and scheduling. Also supports power amplification and pre-amplification of the line-side MUX signal.
Slot Number	2 Slots

Integration	Built-in Twin 1×9 WSS, BA, PA, OSC, VOA, passive filter, etc.
Security	Supports Automatic Power Reduction (APR) technology
Monitoring Port	Reserved OCM and OTDR monitoring ports in transmitting and receiving directions on the line side, externally connectable to OCM card and OTDR card
Channel Range	191.35 THz ~ 196.1 THz, supports Flexible Grid spectral width N × 3.125 GHz adjustment
Max Number of Channels	96 Channels (50 GHz interval)
Power Regulation	Supports power adjustment of each channel, attenuation range 0 to 15 dB per wavelength, with 0.1 dB step adjustment
Port Isolation	> 25 dB
Extinction Ratio	? 25 dB
Polarization Dependent Loss	? 1.5 dB
Attenuation Accuracy per Wavelength	? 1 dB
Reconstruction Time	? 3 s
Variable Gain	BA supports adjustable gain range of 15 ~ 25 dB. PA supports adjustable gain range of 15 ~ 25 dB or 25 ~ 35 dB (optional by application scenario).
Output Optical Power	Maximum total output optical power ? 21 dBm
Line Side VOA Position	PA input port (BA without VOA)

VOA Inherent Insertion Loss	1 dB
VOA Adjustment Range	0 ~ 15 dB
OSC Working Wavelength	1510 nm
OSC Working Rate	1.25 Gb/s
OTDR Channel Wavelength	1625 nm
OTDR Channel Loss	1 dB

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