

# WSS (9-Degree ROADM Card)

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### Details

The 9-Degree ROADM card (WSS) launched by D Tech Trading supports the integration of key functions WSS, BA, PA and OSC into one card, has built-in dual 1x9 WSS components and has 9 ports for wavelength multiplexing and demultiplexing. It supports a DWDM Network with 96 channels (50GHz wavelength interval) in the frequency range of 191.35THz ~ 196.10THz in the C-band. It also supports the flexible grid function, realizes the flexible adjustment of channel bandwidth, and improves the spectrum utilization of the whole network.

### Application case:

Suitable for dynamic add/drop and pass-through of optical wavelength in OADM station

Suitable for dynamic pass-through and scheduling of multi-degree optical wavelengths in ROADM station

### Product Specification:

Specification	Value
Function	It 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 1x9 WSS, BA, PA, OSC, VOA, passive filter, etc
Security	Support automatic power reduction (APR) technology
Monitoring port	Reserve OCM and OTDR monitoring ports in the transmitting and receiving directions on the line side, which can be externally connected 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 (50GHz interval)

Specification	Value
Power regulation	Supports power adjustment of each channel, with attenuation range of each wavelength from 0 to 15dB, and attenuation setting step of 0.1 dB
Port isolation	>25dB
Extinction ratio	?25dB
Polarization dependent loss	?1.5
Attenuation accuracy per wavelength	?1dB
Reconstruction time	?3s
Variable gain	BA supports 15 ~ 25dB gain range adjustable. PA supports 15 ~ 25dB or 25 ~ 35dB, and the gain range is adjustable (optional according to the 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	?1dB
VOA adjustment range	0 ~ 15dB
OSC working wavelength	1510nm
OSC working rate	1.25Gb/s
OTDR channel wavelength	1625nm
OTDR channel loss	?1dB