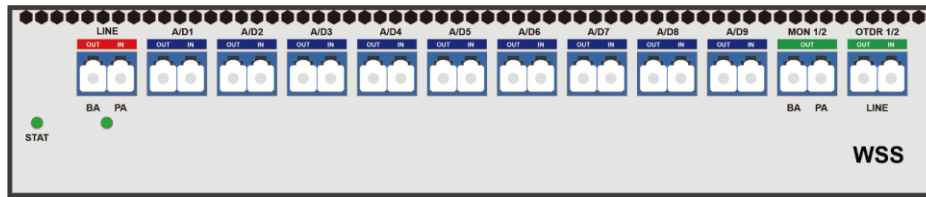


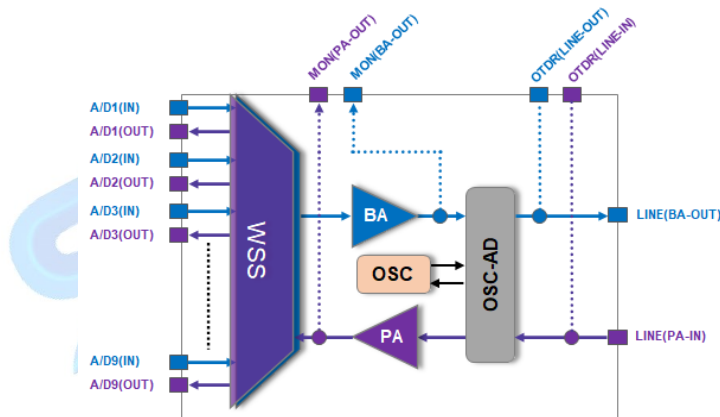
## 9-dimensional ROADM Card: WSS

The 9-dimensional ROADM card launched by Sintai Communication 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.

### Product view



### Function structure



### 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-dimensional optical wavelengths in ROADM station

## Product specification

9-dimensional ROADM: WSS	
<b>Function</b>	It supports 9-port wavelength selective MUX and DEMUX to realize the dynamic penetration and scheduling of wavelength. It also supports the power amplification and pre amplification of the line side MUX signal
<b>Slot number</b>	2 slots
<b>Integration</b>	Built-in Twin 1x9 WSS, BA, PA, OSC, VOA, passive filter, etc
<b>Security</b>	Support automatic power reduction (APR) technology
<b>Monitoring port</b>	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
<b>Channel range</b>	191.35 THz~196.1 THz, support Flexible Grid spectral width N*3.125 GHz adjustment
<b>Max number of channels</b>	96 channels (50GHz interval)
<b>Power regulation</b>	It supports the power adjustment of each channel, the attenuation range of each wavelength is 0 ~ 15dB, and the attenuation setting step is 0.1 dB
<b>Port isolation</b>	>25dB
<b>Extinction ratio</b>	≥25dB
<b>Polarization dependent loss</b>	≤1.5
<b>Attenuation accuracy per wavelength</b>	≤1dB
<b>Reconstruction time</b>	≤3s
<b>Variable gain</b>	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)
<b>Output optical power</b>	Maximum total output optical power≥21 dBm
<b>Line side VOA position</b>	PA input port (BA without VOA)
<b>VOA inherent insertion loss</b>	<1dB
<b>VOA adjustment range</b>	0 ~ 15dB
<b>OSC working wavelength</b>	1510nm
<b>OSC working rate</b>	1.25Gb/s
<b>OTDR channel wavelength</b>	1625nm
<b>OTDR channel loss</b>	<1dB