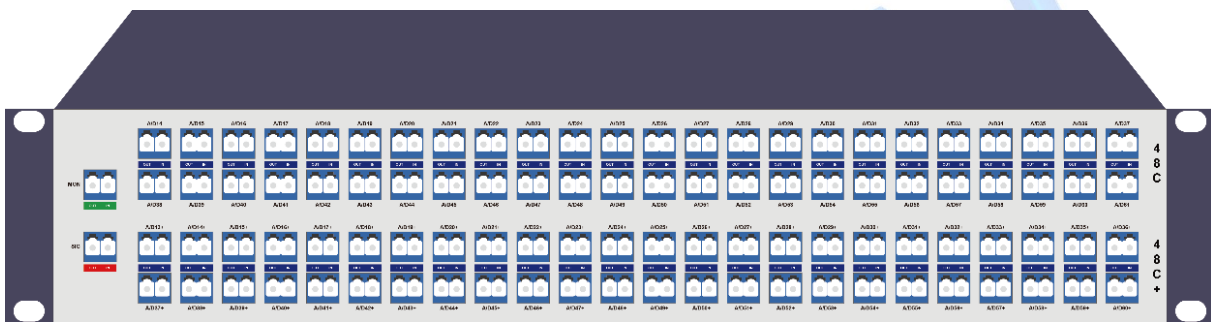


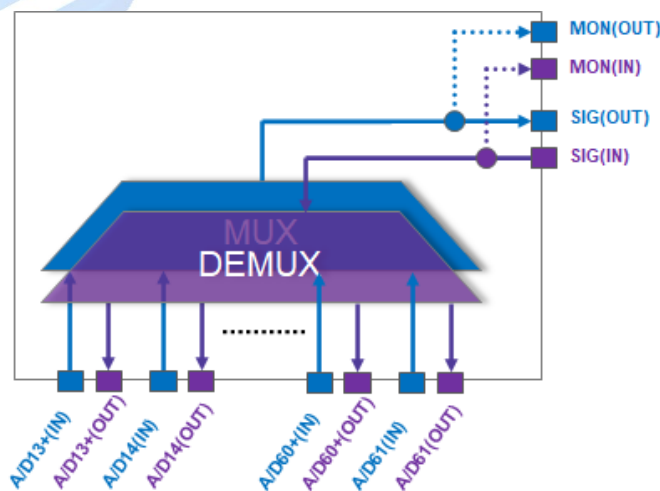
## 96-Channel Passive MUX DEMUX: MUX96

The 96-channel passive MUX / DEMUX (MUX96) launched by Sintai Communication is mainly used in DWDM wavelength division system to complete the multiplexing or demultiplexing function of 96 optical wavelengths in the C-band range. It can multiplex different optical wavelengths to one optical fiber or separate multiple optical channels multiplexed in the same optical fiber by wavelength. Based on the waveguide grating technology on silicon substrate, it adopts a unique heat free packaging design, which can achieve accurate channel coupling, low insertion loss, high channel isolation and high stability. It is suitable for 96 wave high-capacity DWDM system.

### Product view



### Function structure



### Application case

- Suitable for multiplexing and demultiplexing 96 channels of DWDM optical signals in C-band

## Product specification

96-Channel Passive MUX DEMUX (MUX96)	
<b>Function</b>	Support multiplexing and demultiplexing of 96 DWDM optical signals in C-band
<b>Size (HxWxD)</b>	2U: 88 mm (Height)×442 mm (Width)×220 mm (Depth)
<b>Spectral type</b>	Flat top type
<b>ITU passband frequency</b>	±6.25GHz
<b>Channel spacing</b>	0.4nm (50GHz)
<b>Channel number</b>	96
<b>Wavelength accuracy</b>	≤0.04nm
<b>Channel insertion loss</b>	≤6.5 dB
<b>Insertion loss uniformity</b>	≤1.5dB
<b>1dB bandwidth</b>	≥0.18nm
<b>3dB bandwidth</b>	≥0.28nm
<b>20dB bandwidth</b>	≤0.7nm
<b>Adjacent channels isolation</b>	≥25dB
<b>Non-adjacent channels isolation</b>	≥25dB
<b>Total crosstalk</b>	≥20dB
<b>Return loss</b>	≥ 40dB
<b>Polarization dependent loss</b>	≤0.5dB
<b>Polarization mode dispersion</b>	≤1.0ps
<b>Dispersion</b>	±35ps
<b>Working temperature</b>	-5 ~ +65°C
<b>Storage temperature</b>	-40 ~ +85°C
<b>MON port splitting ratio</b>	21dB (splitting ratio 1%)
<b>Management</b>	Provide RJ-45 management interface to connect with the rear interface card of OTNS8600-DCI8 equipment, read the SN / model / PN and other information of the equipment through the network management system, and report the on / off status at the same time, with dumb resource management ability