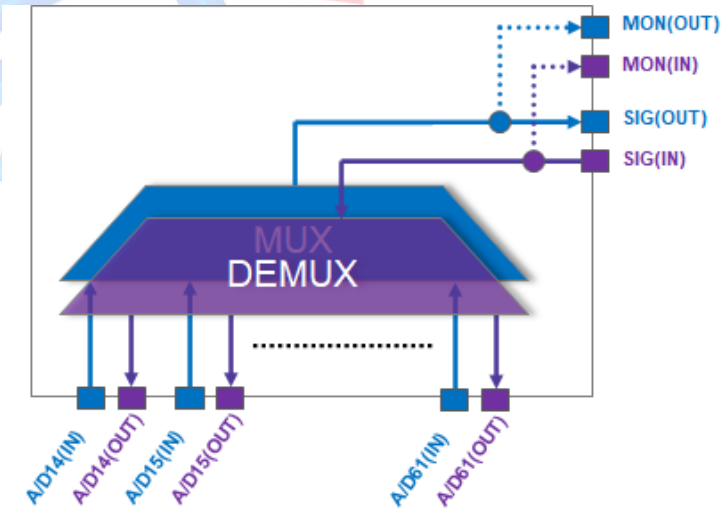
48-Channel Passive MUX DEMUX: MUX48

The 48-channel passive MUX / DEMUX (MUX48) launched by Sintai Communication is mainly used in DWDM wavelength division system to complete the multiplexing or demultiplexing function of 48 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 48 wave high-capacity DWDM system.

Product view

Function structure



Application case

- Suitable for multiplexing and demultiplexing 48 channels of DWDM optical signals in C-band

Product specification

48-Channel Passive MUX DEMUX（MUX48）	
Function	Support multiplexing and demultiplexing of 48 DWDM optical signals in C-band
Size (HxWxD)	1U: 44 mm (Height)×442 mm (Width)×220 mm (Depth)
Spectral type	Flat top type
ITU passband frequency	±12.5GHz
Channel spacing	0.8nm (100GHz)
Channel number	48
Wavelength accuracy	≤0.04nm
Channel insertion loss	≤5.5 dB
Insertion loss uniformity	≤1.5dB
1dB bandwidth	≥0.38nm
3dB bandwidth	≥0.56nm
20dB bandwidth	≤1.2nm
Adjacent channels isolation	≥25dB
Non-adjacent channels isolation	≥30dB
Total crosstalk	≥22dB
Return loss	≥ 40dB
Polarization dependent loss	≤0.5dB
Polarization mode dispersion	≤0.5ps
Dispersion	±20ps
Working temperature	-5 ~ +65°C
Storage temperature	-40 ~ +85°C
MON port splitting ratio	21dB (**s**plitting ratio 1%)
Management	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