

The 48-channel AWG card is a pluggable passive forty-eight-channel 100GHz DWDM multiplexer or de-multiplexer (MUX & DEMUX) in a single 1U solution. It may be used in pairs to expand capacity in bidirectional transmission network.

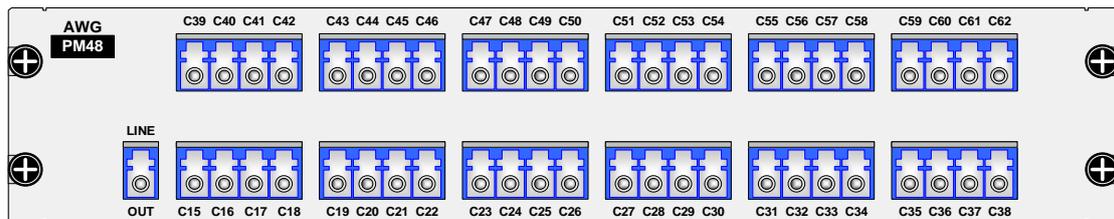
Product Features:

- High isolation, low insertion loss, high reliability and stability
- Support 48 DWDM Channels
- Easy installation without power supply or setting up the working environment
- No energy consumption and can meet environmental requirements
- No need to debug, no network management necessary, zero maintenance
- Support transparent transmission which is not related to the speed, format, content and applicability of the service
- OPC1600 passive chassis is used to load the card
- Adopt modular architecture design with long service life

Product Overview:

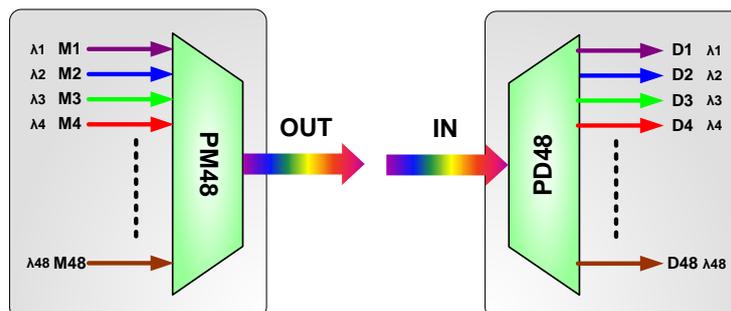
The single fiber unidirectional passive pluggable 48-channel AWG card of Sintai Communication Co., Ltd has two function modules. Multiplexer board supports the multiplexing of 48-channel optical signals of WDM standard wavelength into one-core optical fiber for unidirectional transmission. De-multiplexer board divides the mixed optical signals transmitted by multiplexing board at the opposite end into the original multi-channel optical signals of WDM standard wavelength. By configuring 2 pairs of unidirectional wavelength division boards, it can expand the bidirectional transmission channel number to as many as 48 on two-core optical fibers.

Product diagram



48 channels single fiber unidirectional passive multiplexer AWG board

Functional structure



Product specification

Number of channels	48
Occupied slot number	2
Wavelength range	DWDM:C Band, 100 GHZ
Insertion loss	< 5.5 dB
Isolation ratio of adjacent channels	> 25 dB
Isolation ratio of non-adjacent channels	> 30 dB
Return loss	> 40 dB
Direction	> 45 dB
Interface type	All interfaces are LC type
Work temperature	-40~85°C
Storage temperature	-40~85°C