

16CH DWDM Mux Demux

16 Channels Double Fiber Passive 100 GHz DWDM Mux/Demux is member of sintai Optics DWDM Series product line. We designed Sintai Optics DWDM Series products to allow easy, gradual, logical and cost efficient expansion of network bandwidth using industry leading passive WDM technology. Main advantage of DWDM is its passive nature – no power supply or cooling necessary, robustness – no special micro-climate requirements and as passive element, it has MTBF 100+ Years. DWDM is – it is fully data rate or line protocol neutral – it is possible to use with colored transceivers supporting such applications as 1G/10G Ethernet, SDH/SONET and 8/4/2/1G Fiber Channel. It's simple to install, requires no configuration or maintenance.

DWDM is passive multiplexer/demultiplexer package based on TFF (Thin-Film Filter) technology, allowing to organize 16 duplex, protocol independent parallel ITU-T G.694.1 compatible Dense Wavelength Division Multiplex (DWDM) data streams over pair of single mode optical fiber. DWDM-16 supports 16 100GHz channels and it can be used as standalone, or together with DWDM-16 by plugging it to Upgrade port and expanding link capacity up to 32 channels. DWDM-16 is manufactured as standard 1U high 19" sub rack fitting any standard equipment rack.

Product features

16channel 100 GHz DWDM Ch. Over double SMF

Fully Passive: No Power Supply or Cooling

Protocol & Data Rate neutral

MTBF: 100+ Years

Low Insertion Loss – 3.2 dB

Compact: 1U Standard 19" Rack

Easy Installation

5 Year Warranty

Product specification

Item	DWDM MUX/DEMUX				
	1	2	4	8	16
Channel number	1	2	4	8	16
Operating wavelength (nm)	1525~1565				
Center wavelength (nm)	ITU-T Grid				
Channel spacing (nm)	0.8nm(100GHz)				
Channel insertion loss (dB)	≤0.8	≤1.2	≤1.8	≤2.6	≤4.5

Channel bandwidth (dB)	ITU±0.11
Flatness (dB)	≤0.5
Adjacent channel isolation (dB)	≥30
Non-adjacent channel isolation (dB)	≥40
Return loss (dB)	≥50
Directivity (dB)	≥55
Polarization-dependent loss (dB)	≤0.2
Polarization mode dispersion (ps)	≤0.2
Power Handling (dB)	≤500
Operating Temperature (°C)	0~+70
Storage Temperature (°C)	-40 ~+85
Package type	Steel tube, ABS box, LGX standard box, 1U standard 19 inch rack