

## 16CH CWDM Mux Demux

CWDM technology provides the flexibility to increase capacity of existing fiber infrastructure by enabling multiple channels/wavelengths over the same fiber cabling. Each channel carries data independently from each other, allowing network designers to transport different data rates. It's protocol and rate transparent supporting such applications as 1G/10G Ethernet, SDH/SONET and 8/4/2/1G Fiber Channel across the same fiber link.

### Product features

- Multiplexing of up to 16 channels on fiber pair
- Low insertion loss
- 1U 19" low profile modular design
- 1% monitor port for Tx and Rx , ensures easy troubleshooting without downtime
- Duplex LC/UPC, easily support duplex patch cables between transceiver and passive unit
- Compliant to ITU-T G.694.2 standard and Telcordia GR1209, GR1221
- Standard 16-channel CWDM band 1270 nm - 1570 nm, 20 nm spacing
- Based on thin-film filter technology
- Passive, no electric power required. (MTBF ca. 500 years)

### Applications

- Maximizes fiber in local loop applications
- Overlays CWDM with existing 1310 nm transmission systems
- Provides bidirectional transmission on a single fiber
- Supports linear (bus) add/drop architectures
- Supports hub-and-spoke ring architectures

### Compliance

- ITU-T G.694.2 and G.695
- GR-1221 Issue 3 and 1209
- RoHS compliant 6/6

## Product specification

Item	CWDM MUX/DEMUX					
	1	2	4	8	16	18
Channel number	1	2	4	8	16	18
Operating wavelength (nm)	1260~1620					
Center wavelength (nm)	ITU-T Grid					
Channel spacing (nm)	20					
Channel insertion loss (dB)	≤0.8	≤1.2	≤1.8	≤2.6	≤4.5	≤5.0
Channel bandwidth (dB)	ITU±6.5					
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					