

CWDM-M947LCR

Coarse Wavelength Division Multiplexing (CWDM)

8 Channel + OSC Duplex LC



Transition Networks CWDM products use a passive technology that allows for any protocol to be transported over the fiber link, as long as it is at a specific wavelength. Transition Networks' CWDM Mux/Demux and Add/Drop Mux can provide a simple and affordable method to maximize existing fiber capacity with little or no increased cost.

Features

- Increase bandwidth on existing fiber infrastructure
- Alleviate fiber exhaustion
- Transmit multiple protocols over an existing duplex fiber link by combining the fiber outputs of multiple media converters
- Provide scalable bandwidth of up to 10 Gbps per channel over existing fiber links
- Plug-and-Play, no configuration of CWDM components
- Use existing standard optical ports on switches and routers
- Utilize Optical Line Converter as transponder

Specifications

CWDM Operating Wavelength	1460nm ~ 1620nm
CWDM Center Wavelength (λ_c)	1470nm ~ 1610nm
1310nm Ch. Operating Wavelength	1260nm ~ 1360nm
1310nm Ch. Center Wavelength (λ_c)	1310nm
CWDM Max. Insertion Loss*	3.3 dB/channel
1310nm Ch. Max Insertion Loss*	1.0 dB/channel
*Note: All Insertion Loss values include one connector pair	
1310nm Ch. Port Isolation	30 dB (min) (at CWDM bands)
CWDM Channel Spacing	20nm
CWDM Channel Passband	-5.5nm < λ_c < +7.5nm
Passband Ripple	0.5 dB (max)
Adjacent Channel Isolation	30 dB (min)
Non-adjacent Channel Isolation	40 dB (min)
Directivity	50 dB (min)
Return Loss	45 dB (min)
Polarization Dependent Loss (PDL)	0.2 dB (max)
Optical Operating Power	300 mW (max)
Fiber Type	Corning SMF-28
Dimensions	Module Rack Width: 8.3" [212 mm] Depth: 7.6" [192 mm] Height: 1.7" [43 mm] Mount Bracket Width: 18.9" [481 mm] Depth: 1.6" [40 mm] Height: 1.7" [44 mm]
Environment	Operating: 0°C to +70°C Storage: -40°C to +85°C
Warranty	Lifetime

Ordering Information

Mux/Demux

CWDM-M947LCR

8 Ch. + OSC, 1470-1610 + 1310nm, Duplex LC

Optional Accessories (sold separately)

CWDM-MB19R1

19" Rack Mount Bracket, 1RU High, holds 2 CWDM Modules

*Note: 1310nm Channel is wideband (+/-50nm)

Other channel configurations may be available upon request.