

8CH CWDM Mux Demux

CWDM Mux/Demux modules provides the most robust and low-cost bandwidth upgrade for your current fiber optic communication networks. The core of CWDM Module application is the passive MUX/DEMUX unit. CWDM MUX/DEMUX are available in 2, 4, 8, 16, 18 channel configurations. Each CWDM module supports Fibre Channel, and Gigabit Ethernet over each port.. Available in ABS box package, LGX package and 19" 1U rackmount. Optional wide band port for existing 1310nm or 1550nm port is available to multiplex with these CWDM Channels. Our CWDM Mux/Demux modules provide low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

Product features

- CWDM multiplexes and demultiplexes 8 CWDM channels to a single fiber, 16 channels with the CWDM upgrade
- Can operate as a universal bidirectional multiplexer when upgraded
- Reduces space requirements with double density form factor
- Low 2.5 dB multiplexing/demultiplexing insertion loss
- Overlays legacy networks, including SONET, with a 1310 nm bypass channel
 - Eliminates the need for channel power balancing with ultra-high isolation design
- Environmentally hardened for ambient operating temperatures of -40 to 85°C; suitable for outside plant applications.

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

Parameter	Unit	MUX/DEMUX
Channel Number	CH	8
Operating Wavelength	nm	1260~1620
Center Wavelength@ λ_c	nm	ITU Grid
Channel Spacing	nm	20
Channel Insertion Loss	dB	≤ 2.2
Channel band Bandwidth	nm	$\geq \lambda_c \pm 6.5$
Channel Ripple	dB	≤ 0.5
Adjacent Channel Isolation	dB	≥ 30
Non-Adjacent Channel Isolation	dB	≥ 45
Return Loss	dB	≥ 50
Directivity	dB	≥ 55
PDL	dB	≤ 0.2
PMD	ps	≤ 0.2
Power Handling	mW	≤ 500
Operating Temperature	°C	0~+70
Storage Temperature	°C	-40 ~+85
Fiber Type	-	Corning SMF-28e Ultra
Package Size	mm	100x80x10