CWDM Mux / Demux

CMD40/80/180

Dual Fiber CWDM Mux / Demux Rack

CMD40

CMD80

CMD180

The CMD series is a standalone dual fiber CWDM Mux/Demux rack for CWDM wavelengths from 1271nm to 1611nm. When fiber availability is limited, the CMD Mux/Demux can increase the bandwidth on the existing fiber infrastructure. By using CMD Mux/Demux for 10Gbps per channel service, up to 180 Gbps could be supported on dual core fiber. The CMD Mux/Demux provides the primary wave division and combination functions for CWDM. Line side wave lengths require translation to client side equipment via a transponder card or direct connection to CWDM wavelength SFP or SFP+ modules.
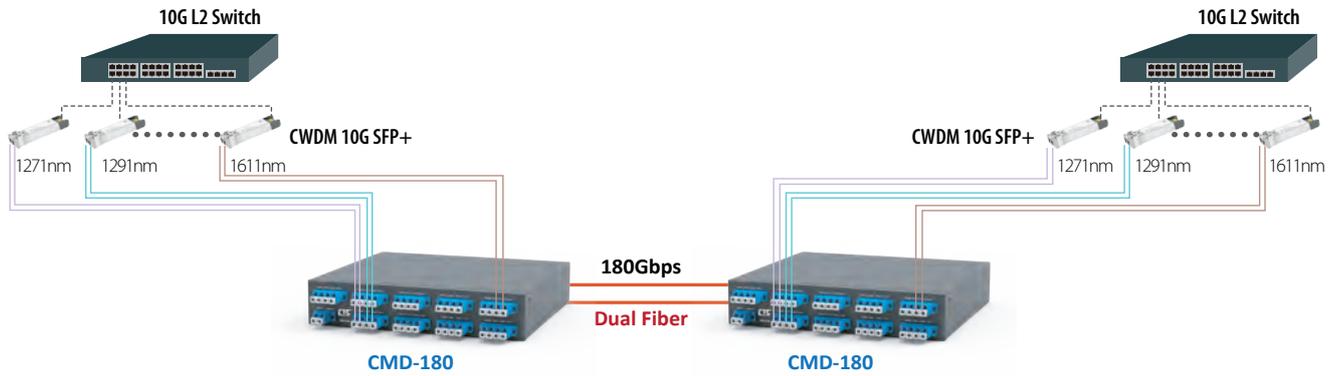
Features

- Full native mode performance
- Standard LC/UPC connectors
- Passive model requires no power

- Protocol transparent, no limitation
- Utilizes industry standard ITU-T CWDM wavelength
- Integration with Transponder for CWDM application

Specifications

Model Name	CMD180	CMD80	CMD40
CWDM Wavelength	1271~1611nm	1471 ~1611nm	1551~1611nm
Operation Wavelength	1260~1620nm	1260~1620nm	1260~1620nm
Channel Spacing	20nm	20nm	20nm
Channel Passband	ITU±6.5nm	ITU±6.5nm	ITU±6.5nm
IL-CWDM channel (with connector)	1.8dB	1.4dB	1.1dB
Pair IL-CWDM channel (M+D,with connector)	3.6dB(Max)	2.8dB(Max)	2.2dB(Max)
Ripple	0.5dB(Max)	0.5dB(Max)	0.5dB(Max)
Adjacent Isolation	30dB(Max)	30dB(Max)	30dB(Max)
Non-Adjacent Isolation	40dB(Max)	40dB(Max)	40dB(Max)
Polarization Dependent Loss	0.2dB(Min)	0.2dB(Min)	0.2dB(Min)
Polarization Mode Dispersion	0.2dB(Min)	0.2dB(Min)	0.2dB(Min)
Directivity	50dB(Max)	50dB(Max)	50dB(Max)
Return Loss	45dB(Min)	45dB(Min)	45dB(Min)
Operating Temperature	-40~85°C	-40~85°C	-40~85°C
Storage Temperature	-40~85°C	-40~85°C	-40~85°C
Connector	LC/UPC	LC/UPC	LC/UPC
Dimension (W×D×H)	215 × 211 × 44mm	215 × 211 × 44mm	215 × 211 × 44mm

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Application

▪ Dual Fiber 18ch CWDM Mux/Demux Application

10G L2 Switch

CWDM 10G SFP+

1271nm　1291nm　1611nm

180Gbps

Dual Fiber

CMD-180

10G L2 Switch

CWDM 10G SFP+

1271nm　1291nm　1611nm

CMD-180

Ordering Information

Model Name	Description
CMD180	18Ch 1U 9" rack ,wavelength (1271 ~ 1611nm), LC/UPC
CMD80	8Ch 1U 9" rack, wavelength (1471 ~ 1611nm), LC/UPC
CMD40	4Ch 1U 9" rack, wavelength (1551 ~ 1611nm), LC/UPC

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