

IQCWM09/16

Fiber Optic Coarse Wave Division Multiplexing Module

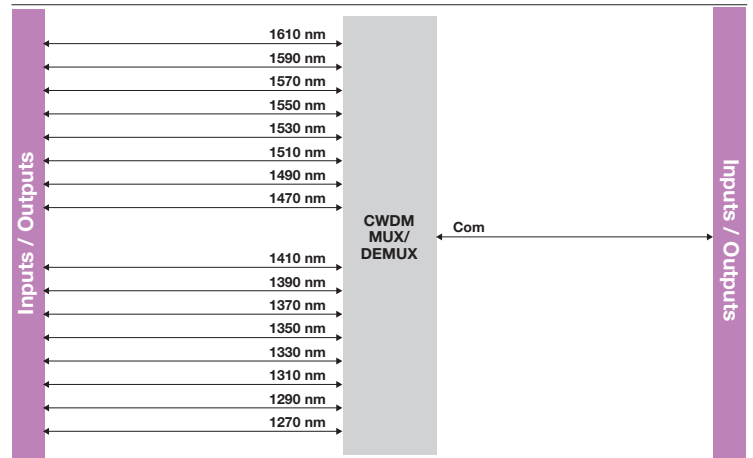
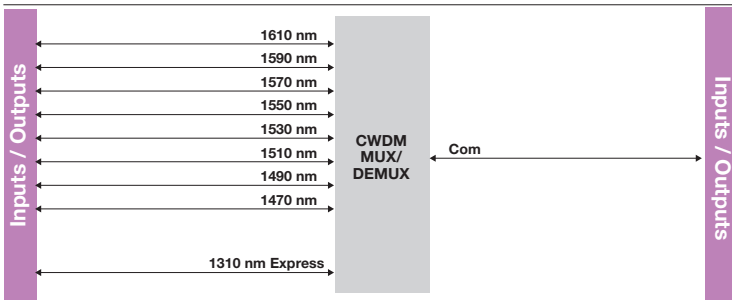
Passive bidirectional multiplexer/demultiplexer modules for use with the IQOTX80, IQORX80 and IQOTR40 series of Fiber Optical Conversion modules.

The IQCWM09 and IQCWM16 from Grass Valley, a Belden Brand, are optical Coarse Wave Division multiplexer/demultiplexer modules. Occupying just a single slot of an IQ modular frame, the CWDM optical blocks themselves are completely passive devices and there are no other active components on the fully assembled modules. Both types are intended for use with the IQOTX80, IQORX80 and IQOTR40 series of Fiber Optical Conversion modules. Connection to all ports are made at the rear of the modules using standard LC receptacles.

The IQCWM09 features 10 bidirectional optical paths (9 dedicated wavelengths + Common). The wavelength range for eight of the nine channels extends from 1470 nm to 1610 nm with 20 nm separation between each. The wavelength for the ninth channel (often referred to as the 'Express Channel') is 1310 nm.

The IQCWM16 features 17 bi-directional optical paths (16 dedicated wavelengths + Common). The 16 dedicated wavelength paths are split into two groups which are separated from the 'Common' port by an optical splitting filter.

Wavelengths for the first group of eight channels extends from 1610 nm to 1470 nm and 1410 nm to 1270 nm for the second group.



SPECIFICATIONS

Signal Inputs/Outputs

IQCWM09 Optical

- 1 x Common
- 1 x 1310 nm Express
- 1 x 1470 nm
- 1 x 1490 nm
- 1 x 1510 nm
- 1 x 1530 nm
- 1 x 1550 nm
- 1 x 1570 nm
- 1 x 1590 nm
- 1 x 1610 nm

IQCWM16 Optical

- 1 x Common
- 1 x 1270 nm
- 1 x 1290 nm
- 1 x 1310 nm
- 1 x 1330 nm
- 1 x 1350 nm
- 1 x 1370 nm
- 1 x 1390 nm
- 1 x 1410 nm
- 1 x 1470 nm
- 1 x 1490 nm
- 1 x 1510 nm
- 1 x 1530 nm
- 1 x 1550 nm
- 1 x 1570 nm
- 1 x 1590 nm
- 1 x 1610 nm

Connector/format: LC singlemode

Controls

Card Edge Controls: NONE

Card Edge Indicators: NONE

General Specifications

IQCWM9

- Connector Type LC
- Insertion Loss: < 2.6 dB
- Channel Spacing: 20 nm
- Pass band @ 0.5 dB ≥ 13 nm
- Isolation: > 30 dB
- Directivity: > 50 dB
- Return Loss: > 45 dB

IQCWM16

- Connector Type LC
- Insertion Loss: < 5 dB
- Channel Spacing: 20 nm
- Pass band @ 0.5 dB ≥ 14 nm
- Isolation: > 30 dB
- Directivity: > 50 dB
- Return Loss: > 45 dB

Power Consumption

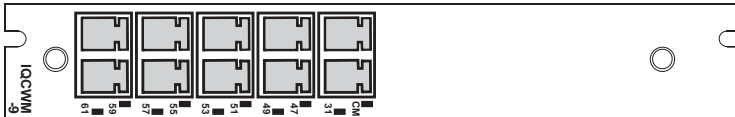
Module power consumption: No power requirement as passive module design

Note: This module can only be installed in IQH3A, IQH3B, IQH1A or IQH1P enclosures. As the card is fitted from the rear of the enclosure at least 435 mm clearance is required behind the enclosure installation

ORDERING

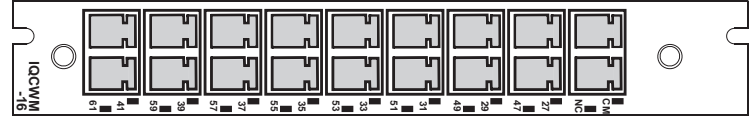
IQCWM0900-1A

10-port Fiber CWDM module. 10 bidirectional fiber connections (LC/PC), Common plus 1310, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm optical wavelengths, plus 1310 nm express channel.



IQCWM1600-1A

17-port Fiber CWDM module. 17 bidirectional fiber connections (LC/PC), Common plus 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm optical wavelengths.



GVB-2-0793A-EN-DS



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