

G-DMUX-C1417-C57-MLU

4-channel DWDM MUX/DEMUX for CWDM 1571 nm

1. Product overview

4-channel DWDM MUX/DEMUX for CWDM 1571 nm. Passive optical filtering combines and separates wavelength channels for transmission over a fiber pair.



Simplified functional illustration



Dual fiber; not a physical port map.

2. Key features

- Passive optical operation; no electrical supply required.
- 4 channels, C14-C17; 100 GHz (0.8 nm).
- Line / channels / MON / EXP.

3. Applications

Optical transport, metro networks, data center interconnect and fiber-capacity expansion.

4. Technical data

Parameter	Specification
Service / channel configuration	4 channels, C14-C17
Transmission topology	Dual fiber
Filter technology	TFF (thin-film filter)
Optical connector	LC/UPC
Dimensions	220 × 200 × 39 mm (H × W × D, source labels)
Net weight	0.5 kg
Mounting / enclosure	2-slot 1U rack
Rack dimensions / weight	44 × 440 × 230 mm (H × W × D) / 2.5 kg

5. Recommended operating conditions

Parameter	Specification
Operating temperature	-40 to +85°C
Storage temperature	-40 to +85°C

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6. Optical characteristics

Optical parameter	Specification	Optical parameter	Specification
Channels / CWDM overlay	C14-C17 / CWDM C57 (1571 nm)	Directivity	=45 dB
Channel spacing	100 GHz (0.8 nm)	Polarization mode dispersion (PMD)	=0.1 ps
Channel passband	±0.11 nm	Polarization dependent loss (PDL)	=0.3 dB
Insertion loss, wavelength ports	≈1.5 dB	Isolation, adjacent channels	=30 dB
Center wavelength accuracy	±0.05 nm	Isolation, non-adjacent channels	=45 dB
Return loss	≈45 dB		

7. Digital diagnostics and management

An optical monitor port is listed for external link/power monitoring. No built-in DDM, management protocol or electrical telemetry is specified.

8. Safety and regulatory

The webpage describes a 100 GHz (0.8 nm) DWDM channel grid. Product-specific safety certifications are not specified.

9. Ordering information

Product number	Description
G-DMUX-C1417-C57-MLU	4-channel DWDM MUX/DEMUX for CWDM 1571 nm; LC/UPC; LGX module