

G-DMUX-S20-2160B-MLU

Single-fiber DWDM MUX/DEMUX, C21-C60, side B, 1310 nm

1. Product overview

Single-fiber DWDM MUX/DEMUX, C21-C60, side B, 1310 nm. Passive optical filtering combines and separates wavelength channels for transmission over a single fiber using complementary transmit/receive wavelengths.



2. Key features

- Passive optical operation; no electrical supply required.
- 20 services / 40 wavelengths + 1310 nm port; 100 GHz (0.8 nm).
- Line / 20 service pairs / 1310 nm.

3. Applications

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

4. Technical data

Parameter	Specification
Service / channel configuration	20 services / 40 wavelengths + 1310 nm port
Transmission topology	Single fiber, side B
Filter technology	AAWG (Gaussian)
Optical connector	LC/UPC
Dimensions	44 × 440 × 230 mm (H × W × D)
Net weight	3.5 kg
Mounting / enclosure	19-inch 1U rack

5. Recommended operating conditions

Parameter	Specification
Operating temperature	-5 to +65°C
Storage temperature	-40 to +85°C

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6. Optical characteristics

Optical parameter	Specification	Optical parameter	Specification
C-band channels	40 wavelengths, C21-C60	Center wavelength accuracy	±0.05 nm
Side A receive / transmit	C21-C40 (1560.61-1545.32 nm) / C41-C60 (1544.53-1529.55 nm)	Return loss	≥40 dB
Side B receive / transmit	C41-C60 (1544.53-1529.55 nm) / C21-C40 (1560.61-1545.32 nm)	Directivity	≥40 dB
1310 nm port passband / loss	1260-1360 nm / ≤1 dB	Polarization mode dispersion (PMD)	≤0.1 ps
Channel spacing	100 GHz (0.8 nm)	Polarization dependent loss (PDL)	≤0.3 dB
Channel passband	±0.11 nm	Isolation, adjacent channels	≥25 dB
Insertion loss, wavelength ports	≤3.5 dB	Isolation, non-adjacent channels	≥30 dB
Link loss	≤7 dB	Passband ripple	≤0.5 dB

7. Digital diagnostics and management

No built-in DDM, management protocol or electrical telemetry is specified for this passive device.

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-S20-2160B-MLU	Single-fiber DWDM MUX/DEMUX, C21-C60, side B, 1310 nm; LC/UPC; 19-inch 1U rack