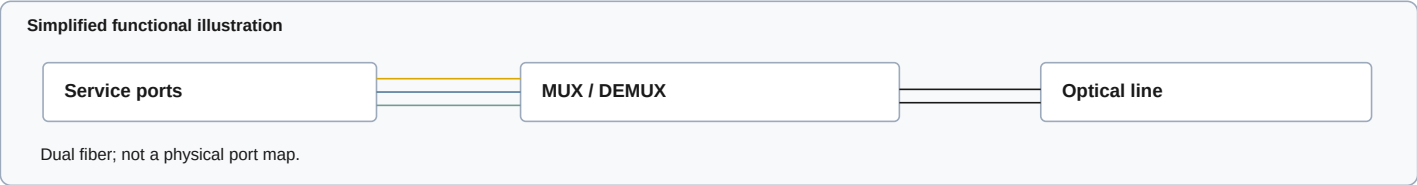


# G-DMUX-40-2160-MLU

40-channel DWDM MUX/DEMUX, C21-C60, 1310 nm + MON

## 1. Product overview

40-channel DWDM MUX/DEMUX, C21-C60, 1310 nm + MON. Passive optical filtering combines and separates wavelength channels for transmission over a fiber pair.



## 2. Key features

- Passive optical operation; no electrical supply required.
- 40 channels, C21-C60; 100 GHz (0.8 nm).
- Line / 40 channel pairs / 1310 nm / 1% MON.

## 3. Applications

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

## 4. Technical data

| Parameter                       | Specification                 |
|---------------------------------|-------------------------------|
| Service / channel configuration | 40 channels, C21-C60          |
| Transmission topology           | Dual fiber                    |
| 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               |
| Front mounting width (drawing)  | 482 mm                        |

PDF lists 1310 nm legacy-port applications: 1G LX/SX, 10G LR, 40G ER4/LR4 and 100G LR/ER4/LR4/ZR4. These are source claims; actual optics must match the port passband.

## 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 |
|----------------------------------|------------------------------|------------------------------------|---------------|
| Channels / wavelength range      | C21-C60 / 1560.61-1529.55 nm | Polarization mode dispersion (PMD) | ≤0.1 ps       |
| Channel spacing                  | 100 GHz (0.8 nm)             | Polarization dependent loss (PDL)  | ≤0.5 dB       |
| Channel passband                 | ±0.11 nm                     | Isolation, adjacent channels       | ≥25 dB        |
| Insertion loss, wavelength ports | ≤3.5 dB                      | Isolation, non-adjacent channels   | ≥29 dB        |
| Link loss                        | ≤7 dB                        | 1310 nm port passband              | 1260-1360 nm  |
| Center wavelength accuracy       | ±0.05 nm                     | Insertion loss, 1310 nm port       | ≤0.8 dB       |
| Return loss                      | ≥40 dB                       | Insertion loss, 1% monitor port    | ≤26 dB        |
| Directivity                      | ≥40 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

ITU-T G.694.1 is cited in the source description. Product-specific safety certifications are not specified.

## 9. Ordering information

| Product number     | Description                                                                |
|--------------------|----------------------------------------------------------------------------|
| G-DMUX-40-2160-MLU | 40-channel DWDM MUX/DEMUX, C21-C60, 1310 nm + MON; LC/UPC; 19-inch 1U rack |

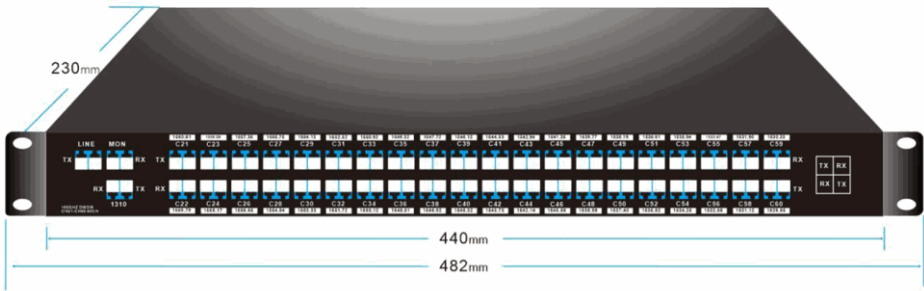


Figure 3 19" Inch 1U Rack