**8-channel DWDM MUX/DEMUX, C14-H24, 150 GHz**

## PRODUCT OVERVIEW

8-channel DWDM MUX/DEMUX, C14-H24, 150 GHz. Passive optical filtering combines and separates wavelength channels for transmission over a fiber pair.

## KEY FEATURES

- Passive optical operation; no electrical supply required.
- 8 channels (family); 150 GHz.
- Line / channels / EXP / MON.
- Application: 800G × 8 channels; compatible optics required.

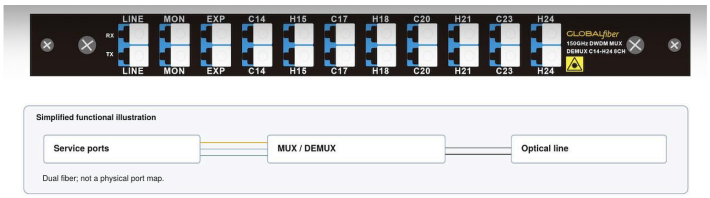
## APPLICATIONS

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

## KEY SPECIFICATIONS

| | |
|---|---|
| Service / channel configuration | 8 channels |
| Transmission topology | Dual fiber |
| Filter technology | TFF |
| Optical connector | LC |
| Dimensions | 214.5 × 150 × 20 mm |
| Net weight | 0.5 kg |
| Mounting / enclosure | 4-slot 1U rack |
| Rack size / net weight / front width | 440 × 160 × 44 mm / 2.5 kg / 482 mm |

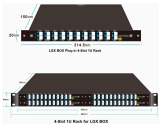
## PRODUCT IMAGE




## RECOMMENDED OPERATING CONDITIONS

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

**Mechanical illustration - housing dimensions; not a port-assignment reference.**



## OPTICAL CHARACTERISTICS

| Optical parameter | Specification | Optical parameter | Specification |
|---|---|---|---|
| Wavelength range | 1556.555-1529.163 nm (family table) | Directivity | ≥40 dB |
| Wavelength range | 1566.314-1529.163 nm (C14-H60 family) | Polarization mode dispersion (PMD) | ≤1.0 ps |
| Channel spacing | 150 GHz | Polarization dependent loss (PDL) | ≤0.7 dB |
| Channel passband | ±0.5 nm | Isolation, adjacent channels | ≥30 dB |
| Insertion loss, wavelength ports | ≤2.4 dB | Isolation, non-adjacent channels | ≥45 dB |
| Link loss | ≤3.5 dB | Total crosstalk (minimum) | ≥5 dB |
| Center wavelength accuracy | ±0.05 nm | -0.5 dB bandwidth | ≥90 GHz |
| Return loss | ≥40 dB | -3 dB bandwidth | ≥150 GHz |

**Channel plan: 32-channel 150 GHz family**

| ITU channel | THz | nm | ITU channel | THz | nm |
|---|---|---|---|---|---|
| C14 | 191.4000 | 1566.314 | C38 | 193.8000 | 1546.917 |
| H15 | 191.5500 | 1565.087 | H39 | 193.9500 | 1545.720 |
| C17 | 191.7000 | 1563.863 | C41 | 194.1000 | 1544.526 |
| H18 | 191.8500 | 1562.640 | H42 | 194.2500 | 1543.333 |
| C20 | 192.0000 | 1561.419 | C44 | 194.4000 | 1542.142 |
| H21 | 192.1500 | 1560.200 | H45 | 194.5500 | 1540.953 |
| C23 | 192.3000 | 1558.983 | C47 | 194.7000 | 1539.766 |
| H24 | 192.4500 | 1557.768 | H48 | 194.8500 | 1538.581 |
| C26 | 192.6000 | 1556.555 | C50 | 195.0000 | 1537.397 |
| H27 | 192.7500 | 1555.343 | H51 | 195.1500 | 1536.216 |
| C29 | 192.9000 | 1554.134 | C53 | 195.3000 | 1535.036 |
| H30 | 193.0500 | 1552.926 | H54 | 195.4500 | 1533.858 |
| C32 | 193.2000 | 1551.721 | C56 | 195.6000 | 1532.681 |
| H33 | 193.3500 | 1550.517 | H57 | 195.7500 | 1531.507 |
| C35 | 193.5000 | 1549.315 | C59 | 195.9000 | 1530.334 |
| H36 | 193.6500 | 1548.115 | H60 | 196.0500 | 1529.163 |

## 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.

## SAFETY AND REGULATORY

Designed for an DWDM optical grid. No product-specific safety certification or active-laser classification is specified for this passive device.

## ORDERING INFORMATION

| Product number | Description |
|---|---|
| **G-DEMUX8-C14H24-MLU** | 8-channel DWDM MUX/DEMUX, C14-H24, 150 GHz; LC LGX4 plug-in module |
| **G-DEMUX8-C25H36-MLU** | Other family variant: C25-H36 |
| **G-DEMUX8-C38H48-MLU** | Other family variant: C38-H48 |
| **G-DEMUX8-C50H60-MLU** | Other family variant: C50-H60 |

Subject to change without notice. For more information visit globalfiber.no.