150 GHz | LC/UPC | Monitor port | Plug-in LGX / 4-slot 1U rack

PRODUCT OVERVIEW

Passive eight-channel DWDM MUX/DEMUX using thin-film filter (TFF) technology. The C38-H48 channel group supports point-to-point transport over two optical fibers. Supports eight 800G services. A monitor port enables link or optical-power monitoring without interrupting traffic.

KEY FEATURES

8 DWDM channels with 150 GHz spacing; passive operation; LC/UPC connectors; monitor port; plug-in LGX housing; optional four-slot 19-inch 1U rack.

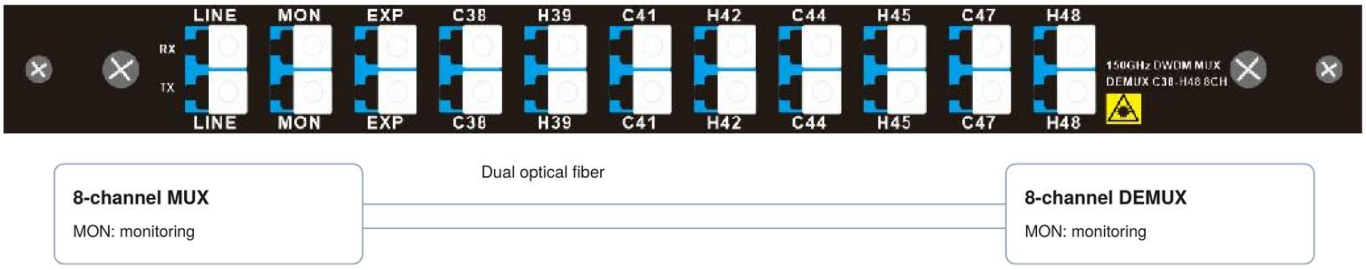
APPLICATIONS

DWDM transmission systems, IDC interconnection and dual-fiber point-to-point links carrying eight 800G services.

KEY SPECIFICATIONS

Channel group	C38-H48
Wavelength range	1546.917-1538.581 nm
Channel count / spacing	8 / 150 GHz
Technology / fiber arrangement	TFF / dual fiber
Optical connector	LC/UPC
LGX dimensions / net weight	214.5 × 150 × 20 mm / 0.5 kg
Rack dimensions / net weight	440 × 160 × 44 mm / 2.5 kg
Rack format	19-inch, 1U, four plug-in LGX slots

PRODUCT IMAGE



RECOMMENDED OPERATING CONDITIONS

Parameter	Specification
Operating temperature	-40 to +85°C
Storage temperature	-40 to +85°C
Power requirement	Passive device; no electrical power required

OPTICAL CHARACTERISTICS

Parameter	Specification	Parameter	Specification
Channel passband	+/-0.5 nm	-3 dB bandwidth	>=150 GHz
Center wavelength accuracy	+/-0.05 nm	Return loss / directivity	>=40 dB / >=40 dB
Insertion loss	<=2.4 dB	Polarization mode dispersion	<=1.0 ps
Link loss	<=3.5 dB	Polarization-dependent loss	<=0.7 dB
Total crosstalk	>=5 dB	Adjacent channel isolation	>=30 dB at center frequency
-0.5 dB bandwidth	>=90 GHz	Non-adjacent channel isolation	>=45 dB at center frequency

Optical specifications include connectors. The descriptive text states insertion loss <2.4 dB; the specification table states <=2.4 dB.

Channel plan - full grid; this product uses C38-H48

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

DIGITAL DIAGNOSTICS AND MANAGEMENT

Passive optical monitor port for link and power monitoring. No digital management interface or digital diagnostic specification is stated.

SAFETY AND REGULATORY

Designed for an ITU 150 GHz channel grid. No explicit safety certification or regulatory compliance declaration is provided.

ORDERING INFORMATION

Parameter	Specification
Reference product number	DMD8-LGX01-150GHZ-M-C36H46
Module	C38-H48; 8CH DWDM, 150 GHz, MON, LC/UPC; plug-in LGX
Rack product number	1U02-4LGX - 19-inch 1U rack, four LGX slots

No separate GLOBALfiber ordering number was supplied.

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