GLOBALfiber
Optical transceiver solutions

PRODUCT DATASHEET
GF-DM8-LGX01-C5360-A

4-channel bidirectional DWDM MUX/DEMUX, C53-C60, side A

PRODUCT OVERVIEW

4-channel bidirectional DWDM MUX/DEMUX, C53-C60, side A. Passive optical filtering combines and separates wavelength channels for transmission over a single fiber using complementary transmit/receive wavelengths.

KEY FEATURES

- Passive optical operation; no electrical supply required.
- 4 services / 8 wavelengths; 100 GHz.
- Line / 4 service pairs / EXP.

APPLICATIONS

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

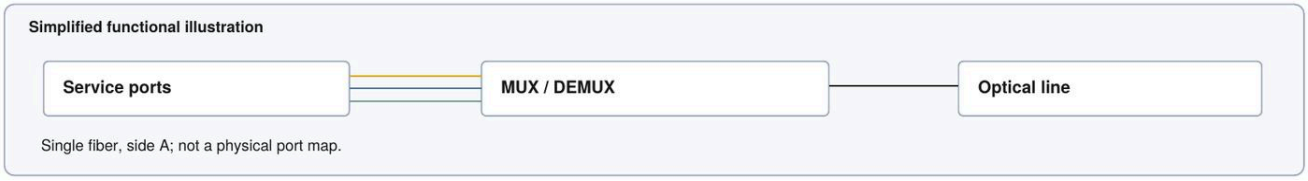
KEY SPECIFICATIONS

Service / channel configuration	4 services / 8 wavelengths
Transmission topology	Single fiber, side A
Filter technology	AAWG DWDM filter
Optical connector	LC/UPC
Connector options in technical info	LC / SCUPC
Fiber type	Single-mode fiber (SMF)
Rack compatibility	LGX4 / 1U

PRODUCT IMAGE



4CH DWDM MUX/ DEMUX Single Fiber Side A



RECOMMENDED OPERATING CONDITIONS

Parameter	Specification
Operating / storage temperature	-40 to +85°C / -40 to +85°C
Relative humidity	5-95%

OPTICAL CHARACTERISTICS

Optical parameter	Specification	Optical parameter	Specification
Channel designation / band	C53-C60 / C-band	Directivity	≥50 dB
Channel spacing	100 GHz	Polarization mode dispersion (PMD)	≤0.2 ps
Channel passband	±0.11 nm	Polarization dependent loss (PDL)	≤0.5 dB
Insertion loss, wavelength ports	≤3.5 dB	Isolation, adjacent channels	≥30 dB
Return loss	≥45 dB	Isolation, non-adjacent channels	≥40 dB

Web channel plan (unverified channel labels)

ITU channel	THz	nm	ITU channel	THz	nm
C53	192.1	~1560.61	C57	192.5	~1557.36
C54	192.2	~1559.79	C58	192.6	~1556.55
C55	192.3	~1558.98	C59	192.7	~1555.75
C56	192.4	~1558.17	C60	192.8	~1554.94

DIGITAL DIAGNOSTICS AND MANAGEMENT

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

SAFETY AND REGULATORY

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

ORDERING INFORMATION

Product number	Description
GF-DM8-LGX01-C5360-A	4-channel bidirectional DWDM MUX/DEMUX, C53-C60, side A; LC/UPC; LGX4 plug-in module

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