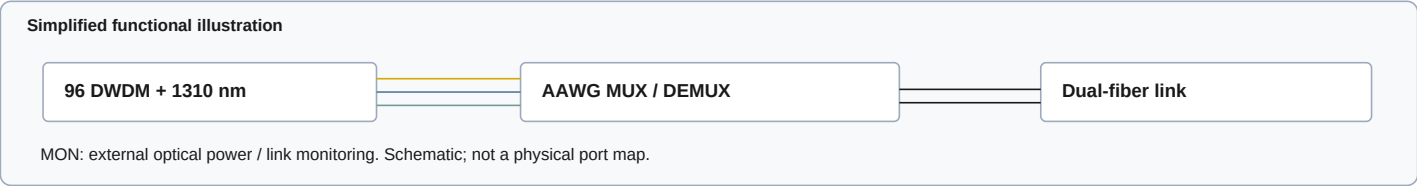
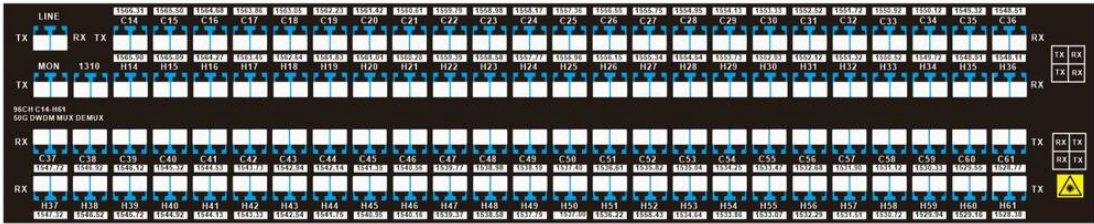


G-DMUX-96DD1461-M31

96-channel DWDM MUX/DEMUX - 50 GHz AAWG with 1310 nm and monitor ports

1. Product overview

Fully passive, high-density wavelength multiplexing solution for carrier, data center and metro networks. The ITU-T G.694.1 50 GHz grid supports point-to-point transmission of up to 97 simultaneous services over dual fiber: 96 DWDM channels and a dedicated 1310 nm legacy service port. A monitor port enables non-intrusive optical power and live-link monitoring.



2. Key features

- 96 DWDM channels covering C14 to H61; 50 GHz channel spacing.
- Passive AAWG technology: no electrical power required.
- Integrated 1310 nm legacy port and dedicated monitor port.
- Low insertion loss and high channel isolation; dual-fiber point-to-point design.
- Standard 19-inch 2U rack-mount chassis.

3. Applications

DWDM backbone and metro networks; data centers and DCI; broadcast and TV; financial and government infrastructure; cloud and large-scale data transport; carrier and ISP optical aggregation.

4. Technical data

Parameter	Specification
Technology	AAWG (Athermal Arrayed Waveguide Grating)
Capacity / architecture	96 DWDM channels; up to 97 services; dual fiber
Additional ports	1310 nm legacy service port and MON port
Connectors / form factor	LC/UPC; 19-inch 2U rack-mount
Dimensions (H x W x D)	88 x 440 x 230 mm
Net weight	4.5 kg

1310 nm port: listed services are 1G LX / SX; 10G LR; 40G ER4 / LR4; and 100G LR / ER4 / LR4 / ZR4.

5. Recommended operating conditions

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

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6. Optical characteristics

Optical parameter	Specification	Optical parameter	Specification
Channel count	96 DWDM channels	Adjacent channel isolation	= 25 dB
Channel range	C14 / H14 to C61 / H61	Non-adjacent channel isolation	= 30 dB
Wavelength range	Approx. 1528.38-1566.31 nm	Passband ripple	= 0.75 dB
Channel spacing	50 GHz (approx. 0.4 nm)	Return loss	= 40 dB
Center wavelength accuracy	±0.05 nm	Directivity	= 40 dB
Insertion loss per wavelength port	= 7.0 dB	Polarization dependent loss (PDL)	= 0.5 dB
Total link loss	= 14 dB	Polarization mode dispersion (PMD)	= 0.5 ps
Total crosstalk	= 25 dB	Legacy service port	1310 nm

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 50 GHz wavelength grid is stated. No additional safety or regulatory certifications are specified in the supplied information.

9. Ordering information

Product number	Description
G-DMUX-96DD1461-M31	96-channel DWDM MUX/DEMUX - 50 GHz AAWG with 1310 nm and monitor ports; LC/UPC; 19-inch 2U rack-mount