MUX96 (96-Channel Passive MUX DEMUX)

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Details

96 Channel DWDM MUX DEMUX (C-Band) – High Capacity Optical Multiplexer

The 96-channel passive DWDM MUX/DEMUX from D-TECH Trading is designed for high-capacity optical transmission systems. It enables multiplexing and demultiplexing of multiple wavelengths over a single fiber using advanced AWG (Arrayed Waveguide Grating) technology.

With heat-free packaging design, this device ensures stable performance, low insertion loss, high channel isolation, and precise wavelength accuracy. It is ideal for backbone networks, data centers, and telecom DWDM applications in Nepal and beyond.

Applications

DWDM C-band wavelength multiplexing & demultiplexing
Data center interconnection (DCI)
High-capacity fiber backbone networks
Telecom and ISP optical transmission systems

Technical Specifications

Parameter	Specification
Function	96 Channel DWDM Multiplexing / Demultiplexing (C-Band)

Channel Spacing	100 GHz (0.8 nm)
Spectral Type	Flat Top
ITU Passband	±12.5 GHz
Wavelength Accuracy	? 0.04 nm
Insertion Loss	? 5.5 dB
Loss Uniformity	? 1.5 dB
Channel Isolation	Adjacent ? 25 dB, Non-adjacent ? 30 dB
Return Loss	? 40 dB
PDL	? 0.5 dB
PMD	? 0.5 ps
Dispersion	±20 ps
MON Port	1% Tap (21 dB splitting ratio)
Operating Temperature	-5°C to +65°C
Storage Temperature	-40°C to +85°C
Size	1U (44 × 442 × 220 mm)

Management & Interface

RJ45 management interface for monitoring and SN/PN reading
Compatible with OTNS8600-DCI8 system
Supports basic status monitoring (ON/OFF)

Note: Please confirm channel count (48CH / 96CH), connector type (LC/SC), and rack compatibility before ordering.

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