1U-4LGX Rack Chassis DWDM

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Variants

1 U

Details

1U Rack DWDM 8CH MUX / DEMUX Without Card

The **1U Rack DWDM 8CH MUX / DEMUX** is a high-performance passive optical device designed for DWDM network expansion, long-distance fiber transmission, data center interconnect, telecom networks, and enterprise backbone applications.

It supports multiplexing and demultiplexing of up to **8 DWDM channels** over a single fiber pair, helping increase bandwidth capacity without installing additional fiber. The **without card** design means it is fully passive, requires no power, no fan, and no active monitoring card.

Category	Specification
Product Type	DWDM MUX / DEMUX Passive Optical Device
Form Factor	1U 19-Inch Rack Mount
Channel Count	8 DWDM Channels
Channel Options	Customizable ITU-T Grid, Example: C21 to C28
Device Type	Passive MUX / DEMUX Without Card

Category	Specification
Power Requirement	No Power Required
Connector Type	LC/UPC or LC/APC Customizable
Fiber Type	Singlemode Fiber, G.652D / G.657A1
Wavelength Spacing	100GHz or 200GHz ITU-T DWDM Grid
Insertion Loss	? 3.5 dB Typical
Adjacent Channel Isolation	? 30 dB
Non-Adjacent Channel Isolation	? 40 dB
Return Loss	? 45 dB
Operating Temperature	-5°C to +75°C
Storage Temperature	-40°C to +85°C

Key Features

- 8-channel DWDM multiplexing and demultiplexing
- 1U 19-inch standard rack-mount enclosure
- Fully passive design without power, fan, or monitoring card
- Supports 100GHz or 200GHz ITU-T DWDM grid
- LC/UPC or LC/APC connector options
- Low insertion loss and high channel isolation
- Compatible with standard DWDM optical transceivers

Reliable and maintenance-free operation

Suitable for telecom, ISP, data center, and enterprise networks

Applications

DWDM Network Expansion

Long-Haul Fiber Transmission

Metro Optical Networks

Data Center Interconnect (DCI)

Enterprise Backbone Networks

Carrier-Grade Optical Networks

FTTx, Core, and Backbone Networks

Advantages

Increases fiber capacity without laying additional cable

No electrical power required for operation

Low maintenance and high reliability

Space-saving 1U rack design

Cost-effective solution for DWDM deployment

Easy to integrate with existing optical networks

Note: DWDM channel selection, connector polish type, and wavelength spacing can be customized according to project requirements.

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