

# DWDM MUX AND DEMUX (Red 29-36) & (Blue 45-52)1U - 8CH

DWDM MUX AND DEMUX (Red 29-36) & (Blue 45-52)1U RACK WITH 2 LGX BOX 8CH BIDI SINGLE FIBER

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## Variants

1U - 8CH

## Details

The **8 Channel DWDM MUX / DEMUX (BiDi)** is a high-performance passive optical multiplexing solution designed to transmit multiple optical wavelengths over a single fiber. Built in a standard **19-inch 1U rack-mount chassis**, it combines and separates eight DWDM channels while reducing fiber infrastructure costs.

This passive DWDM system utilizes **ITU-T C-Band DWDM channels** with **Red Channels 29–36** and **Blue Channels 45–52**. It includes **two LGX fiber modules** for convenient installation, cable management, and future network expansion. The solution is ideal for telecom operators, ISPs, enterprise backbone networks, and data centers requiring reliable high-capacity optical transmission.

Channels

**8 CH**

Transmission

**BiDi**

Rack Size

**1U**

LGX Modules

**2 Boxes**

## Key Features

? 8 Channel DWDM Multiplexer & Demultiplexer

? Bi-Directional Single Fiber Transmission

? ITU-T Standard DWDM C-Band Channels

? Red Channels 29–36 & Blue Channels 45–52

? Passive Optical Design (No Power Required)

? Standard 19" 1U Rack Mount

? Includes Two LGX Fiber Modules

? Easy Installation & Future Expansion

## Technical Specifications

Category	Specification
<b>Product Type</b>	DWDM MUX / DEMUX (BiDi)
<b>Channel Capacity</b>	8 Channels
<b>Channel Group</b>	Red 29–36 / Blue 45–52
<b>ITU Standard</b>	ITU-T DWDM C-Band Grid
<b>Transmission Type</b>	Single Fiber Bi-Directional (BiDi)
<b>Operation</b>	Passive (No Power Required)
<b>Rack Size</b>	19-inch, 1U Rack Mount
<b>LGX Modules</b>	2 × LGX Fiber Adapter Boxes
<b>Fiber Management</b>	Integrated LGX Modular Design
<b>Installation</b>	Standard 19-inch Rack Cabinet

## Applications

DWDM Optical Transport Networks

ISP Backbone Networks

Telecom Transmission Systems

Data Center Interconnection (DCI)

Enterprise Fiber Backbone

Metro & Long-Distance Optical Networks

**Note:**

This is a passive DWDM multiplexing solution that requires no external power supply. It is designed for high-density optical transmission using ITU-T DWDM wavelengths and is compatible with telecom-grade DWDM SFP, SFP+, QSFP, and other optical transceiver modules operating on the corresponding DWDM channels.