

DWDM MUX AND DEMUX (Red21-28) (Blue 51-58) 1U RACK 8CH WITH 2 LGX BOX BIDI SINGLE FIBER

DWDM MUX AND DEMUX (Red21-28) (Blue 51-58) 1U RACK 8CH WITH 2 LGX BOX BIDI SINGLE

Details

This is a **DWDM (Dense Wavelength Division Multiplexing) multiplexer and demultiplexer** system designed to combine and separate multiple optical data channels over a **single optical fiber** using bidirectional (BiDi) transmission. It operates with **8 channels** split across two wavelength groups — *Red 21-28* and *Blue 51-58* — enabling efficient use of fiber capacity. The unit is supplied in a **1U 19-inch rack-mount format** and includes **2 LGX fiber modules (boxes)** for easy fiber organization and installation.

Key Features

DWDM Technology: Enables multiple wavelengths to run on a single fiber, increasing bandwidth without laying more fiber.

8 Channels (BiDi): Supports 8 DWDM channels across two wavelength bands for bidirectional single-fiber transmission.

Wavelength Bands: Red band 21-28 and Blue band 51-58 follow ITU-T grid standards for DWDM.

Rack-Mount 1U Design: Fits standard 19" rack installations, with **LGX boxes** for secure and organized fiber termination.

Passive Device: Typically passive (no power needed), providing reliability and low maintenance (common in DWDM MUX/DEMUX products).

High Capacity: Great for metro, carrier, or enterprise backbone links where maximizing fiber utilization is critical.