FS

16ch DWDM Mux Demux with Monitor and Expansion Port, Pluggable Module

Pluggable Module, LC/UPC
Data Center & Cloud Computing Infrastructure Solutions

Overview

The DWDM passive Mux Demux modules deliver the benefits of a Dense Wave Division Multiplexer in a fully passive solution. They are designed for long-haul transmission where wavelengths are packed tightly together over the C-band range of wavelengths, up to 48 wavelengths in 100GHz grid(0.8nm) and 96 wavelengths in 50GHz grid(0.4nm). ITU G.694.1 standard and Telcordia GR1221, GR1209, CE, RoHS, FCC are compliant

Features

- Multiplexing of 16 channels on fiber pair
- Pluggable module design, adapted for FMT Chassis
- LC/UPC connectors
- 1% monitor port for Tx and Rx, ensures easy troubleshooting without downtime
- Expansion port for future capacity expansion
- Compliant to ITU G.694.1, 100GHz ITU gird, 0.8nm spacing
- High quality thin film filter technology
- Active, external DC/AC power supply.

Technical Data

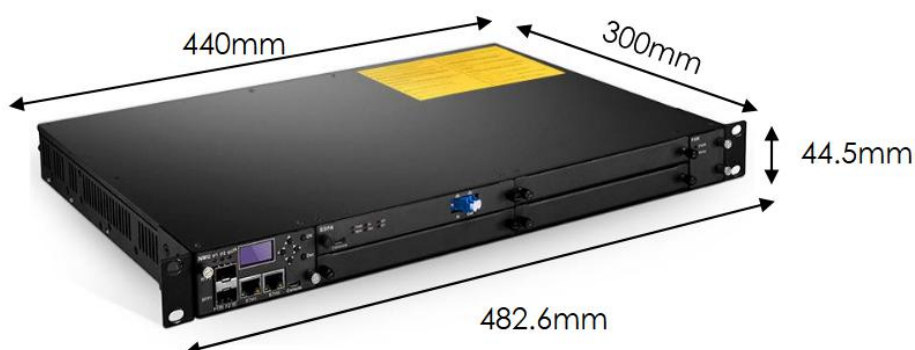| Parameter	Value
Wavelength	1270-1610nm
Channel Spacing	20nm
Channel Passband	±6.5nm
Insertion Loss	≤ 5.2dB
Insertion Loss (1% Mon)	≤ 24.5dB
Adjacent Channel Isolation	≥ 30dB
Non-adjacent Channel Isolation	≥ 35dB
Filter Technology	TFF (Thin Film Filter)
Passband Ripple	≤0.3dB
Return Loss	≥ 45dB
Directivity	≥ 50dB
Polarzation Dependent Loss	≤ 0.3dB
Polarization Mode Dispersion	≤ 0.2ps
Power Handling	≤ 500mW
Operating Temperature	-40°C~ +85°C
Storage Temperature	-40°C~ +85°C
Fiber Type	G657 A1
Connector Type	LC/UPC Connector

Notes:

1. Specified with connectors and adapters.

Dimensions

4-slot 1U managed chassis, supports up to 4x mutiplexer/EDFA/OEO/OLP Card with accessories;

 - Width: 482.6mm (19'')

 - Height: 44.50mm (1.75'')

 - Depth: 300mm (11.81'')

DWDM Mux and Demux pluggable modules occupy two slots.

Applications for DWDM Optical Transport System

16ch DWDM Mux Demux pluggable module is designed for using in FMT chassis, it can be used with other function cards like tansponder(OEO) and OLP cards to create a high-intergrated DWDM solution.
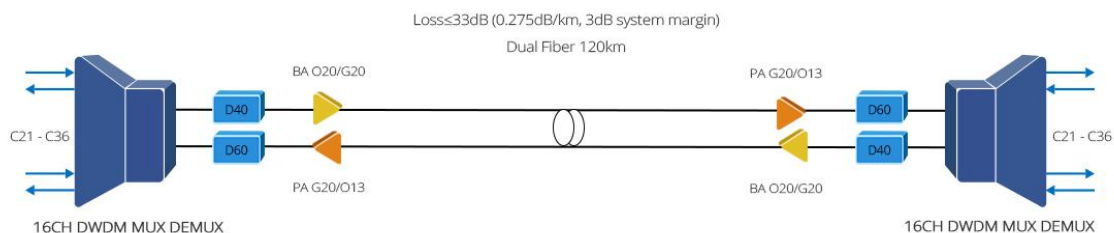
 Various DWDM transport system case can be customized by your own demand with 16ch DWDM Mux Demux pluggable module intergrated in a FMT chassis, which can save your rack space and management cost.

FS also provide customers with standardized optical transmission solutions, such as FMT-1600 optical transport platform.

DWDM Optical Transport Platform - FMT 1600 Efficient

Network Diagram

Products in DWDM Optical Transport System

Application	ID#	Description
16ch Mux Demux	#74537	16 Channels C21-C36 Dual Fiber DWDM Mux Demux with Monitor Port and Expansion Port, Pluggable Module for FMT 1600E, LC/UPC
Transponder(OEO)	#30515	4 Channels Multi-Rate WDM Converter (Transponder), 8 SFP/SFP+ Slots, Up to 11.3G Rate, Pluggable Module for FMT Multi-Service Transport Platform
Booster DWDM EDFA	#36501	22dBm Output Booster DWDM EDFA C-band 24dB Gain, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform
Pre-Amplifier DWDM EDFA	#72284	20dB Gain Pre-Amplifier DWDM EDFA C-band 13dBm Output, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform
40KM DCM Card	#65781	40KM DCF-based Passive Dispersion Compensation Module, 3.5dB Low Loss, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform
80KM DCM Card	#65779	80KM DCF-based Passive Dispersion Compensation Module, 4.8dB Low Loss, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform
OLP Card	#66010	1+1 Optical Line Protection Switch (OLP), Pluggable Module for FMT Multi-Service Transport Platform
4U Managed Chassis	#35952	4U Managed Chassis Unloaded, Supports up to 16x EDFA/OEO/OLP Module with Accessories
SFP10G 80KM Transceiver	#31238	C21 DWDM-SFP10G-60.61 Compatible 10G DWDM SFP+ 1560.61nm 80km DOM Transceiver Module
SFP10G 40KM Transceiver	#38759	C36 DWDM-SFP10G-48.51 Compatible 10G DWDM SFP+ 1548.51nm 40km DOM Transceiver Module
Patch Cable	#40191	1m (3ft) LC UPC to LC UPC Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable

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