

40ch DWDM Mux Demux, TAWG, Pluggable Module

Pluggable Module, LC/UPC

Data Center & Cloud Computing Infrastructure Solutions



Overview

The 40ch Mux Demux is a high density, low loss and standalone passive optical module that provides excellent solution for infrastructure savings by aggregating all 40 DWDM channels at a single site. All 40 channels are spreading over the C-band perITU-T 100GHz spacing between channels using high quality TAWG technology.

The main fields of applications are the use in SDH (STM-1, STM-4, STM-16, STM- 64), IP (Fast Ethernet, Gigabit Ethernet, 10 Gigabit) ATM and storage (1G, 2G, 4G, 8G, 10G Fibre Channel) networks.

Features

- Multiplexing of 40 channels on fiber pair
- Pluggable module design, adapted for FMT Chassis
- LC/UPC duplex connectors
- Compliant to ITU G.694.1, 100GHz ITU grid, 0.8nm spacing
- Based on Thermal Arrayed-Waveguide TAWG technology
- Qualified to Telcordia GR-1209-CORE and GR-1221-CORE
- Active, external DC/AC power supply.

Technical Data

Parameter	Value
ITU Channels	40 channels C21-C60 (DWDM ports)
Operating Wavelength	1520-1570nm
Channel Spacing	100GHz (0.8nm)
Channel Passband	± 0.11nm
Insertion Loss	≤ 5.5dB
Adjacent Channel Isolation	≥ 25dB
Non-adjacent Channel Isolation	≥ 29dB
Filter Technology	TAWG
Passband Ripple	≤ 0.5dB
Return Loss	≥ 45dB
Directivity	≥ 40dB
Polarization Dependent Loss	≤ 0.5dB
Polarization Mode Dispersion	≤ 0.5ps
Power Handling	≤ 500mW
Operating Temperature	-5° C~ +65° C
Storage Temperature	-40° C~ +85° C
Fiber Type	G657 A1
Connector Type	LC/UPC Connector

Notes:

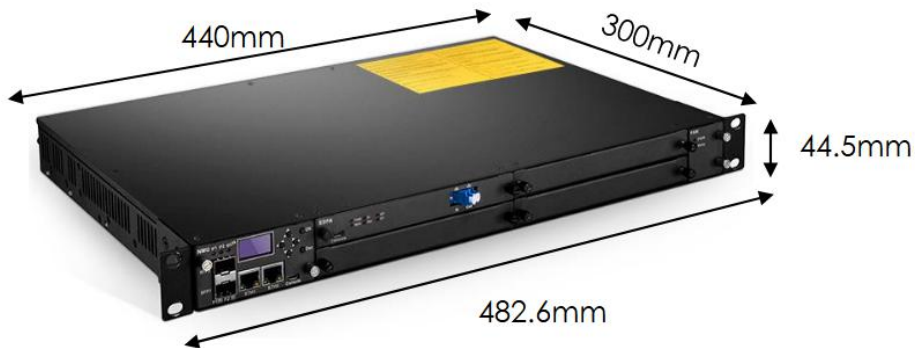
1. Specified with connectors and adapters.

Dimensions

4-slot 1U managed chassis, supports up to 4x multiplexer/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

40ch DWDM Mux Demux pluggable module is designed for using in FMT chassis, it can be used with other function cards like transponder(OEO), OLP, EDFA and DCM cards to create a high-intergrated DWDM solution.

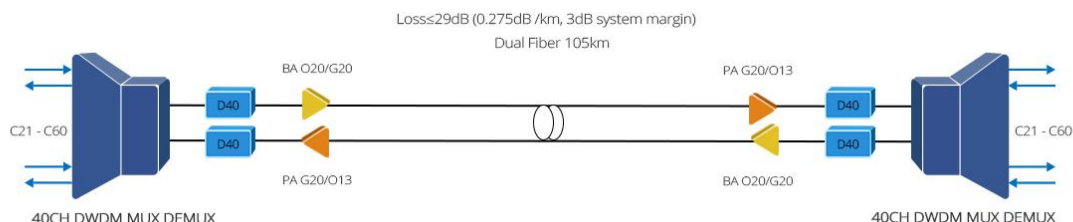
Various DWDM transport system case can be customized by your own demand with 40ch DWDM Mux Demux pluggable module intergrated in a FMT chassis, which can save your rack space and management cost.

FS also provide customers with standardized optical transmission solutions, such as FMT-4000 optical transport platform.



DWDM Optical Transport Platform - FMT 4000 Efficient

Network Diagram



Products in DWDM Optical Transport System

Application	ID#	Description
40ch Mux Demux	#74538	40 Channels C21-C60 Dual Fiber DWDM Mux Demux, Pluggable Module for FMT 4000E, TAWG, 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	#48341	C60 DWDM-SFP10G-29.55 Compatible 10G DWDM SFP+ 1529.55nm 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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