

18ch CWDM Mux Demux with Monitor Port, Pluggable Module

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



Overview

The CWDM Mux Demux pluggable module covers all channels from 1270nm to 1610nm in 20nm increments. Without replacing any infrastructure, it totally supports data rates up to 180 Gbps by being completely protocol transparent.

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 up to 18 channels on fiber pair
- Pluggable module design, adapted for FMT Chassis
- 1% monitor port for Tx and Rx , ensures easy troubleshooting without downtime
- Duplex LC/UPC, easily support duplex patch cables between transceiver and passive unit
- Compliant to ITU-T G.694.2 standard and Telcordia GR1209, GR1221
- Standard 18-channel CWDM band 1270nm - 1610nm, 20nm spacing
- Based on 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	≤ 6.7dB
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
Polarization 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:

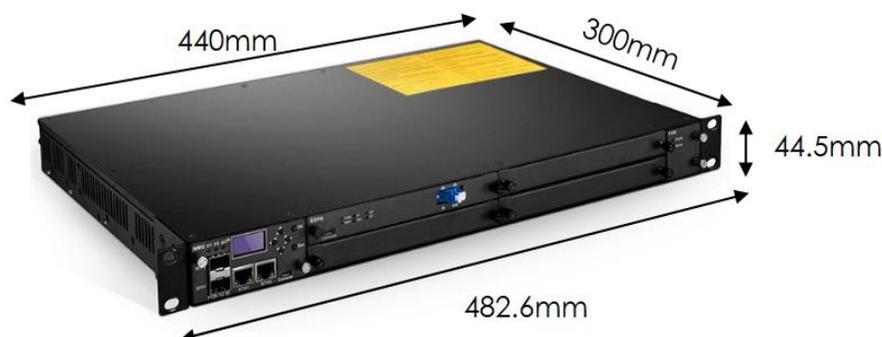
1. Specified with connectors and adapters.

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")

CWDM Mux and Demux pluggable modules occupy two slots.



Applications for CWDM Optical Transport System

18ch CWDM 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 CWDM solution.

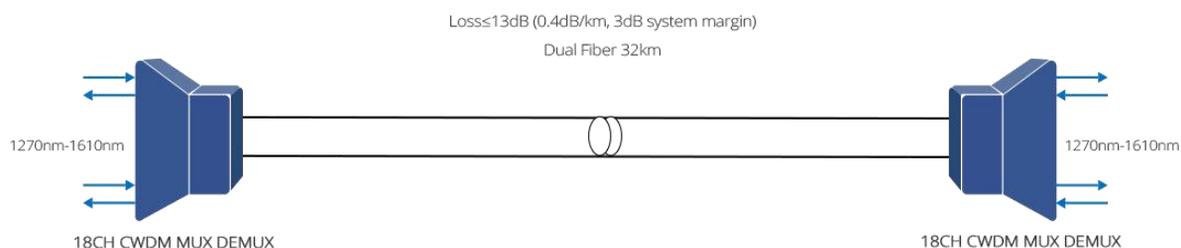
Various CWDM transport system case can be customized by your own demand with 18ch CWDM Mux Demux pluggable module intergrated in a FMT chassis, which can save your rack space and management cost.

FS also provide customers with standardized optical transmission solutions, such as FMT-1800 optical transport platform.



CWDM Optical Transport Platform - FMT 1800 Efficient

Network Diagram



Products in CWDM Optical Transport System

Application	ID#	Description
18ch Mux Demux	#74536	18 Channels 1270-1610nm Dual Fiber CWDM Mux Demux with Monitor Port, Pluggable Module for FMT 1800, 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
OPD Card	#78568	4 Channels 1550nm OPD (AIU) Optical Power Detection, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform
1G SFP Transceiver	#47248	CWDM-SFP-1610 Compatible 1000BASE-CWDM SFP 1610nm 80km DOM Transceiver Module
10G SFP Transceiver	#19374	CWDM-SFP10G-1610 Compatible 10G CWDM SFP+ 1610nm 80km DOM Transceiver Module
3G-SDI Transceiver	#62351	3Gb/s MSA CWDM SFP 1330nm 40km Transmitter & Receiver Video Pathological Patterns Transceiver Module for SD/HD/3G-SDI
1U Managed Chassis	#39214	1U Managed Chassis Unloaded, Supports up to 4x EDFA/OEO/OLP Module with Accessories
Patch Cable	#40191	1m (3ft) LC UPC to LC UPC Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable



 <https://www.fs.com>



The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.