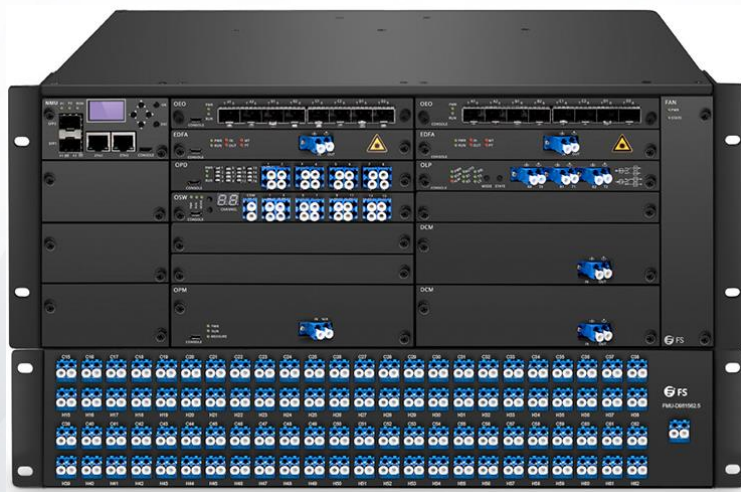FS

96 Channels DWDM Dual Fiber End-to-End Transport Platform

Up to 960Gbps 80km Dual Fiber BIDI End-to-End Transport

Description

96 channels DWDM dual fiber end-to-end transport platform can support up to 960Gbps capacity in 80km long-haul dual fiber transmission. It is designed primarily to address the growing needs for optical transmission link that supports a broad range of applications.

This product offers a future-proof 2U platform, which has advantages of low power consumption and compact housing.

Features

• Up to 960Gbps, 80km end to end transmission

• Fiber monitoring function with OPM/OTDR

• Line protection function with OLP

• Hot-swappable modules can be integrated into one FMT chassis

• Individually controlled dual AC pluggable power supply and fan unit

• Support SNMPv1, Monitor Online, Simple Management Tool management protocols

960G DWDM Transport Platform

The 96 Channels DWDM Dual Fiber End-to-End Transport Platform is designed to meet the demands of Data Center Interconnection (DCI) and enterprises to transmit multiple services for long distance. It integrates Mux Demux, EDFA, OPM, OTDR and etc to achieve high capacity transmission with fiber monitoring and protection function.
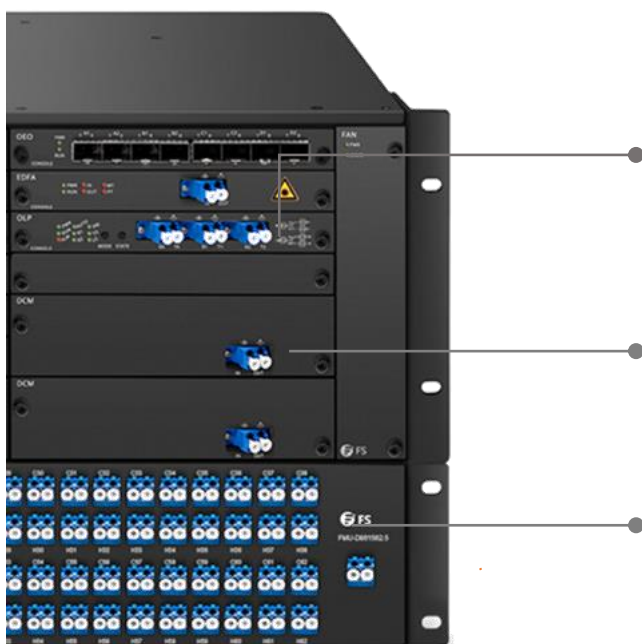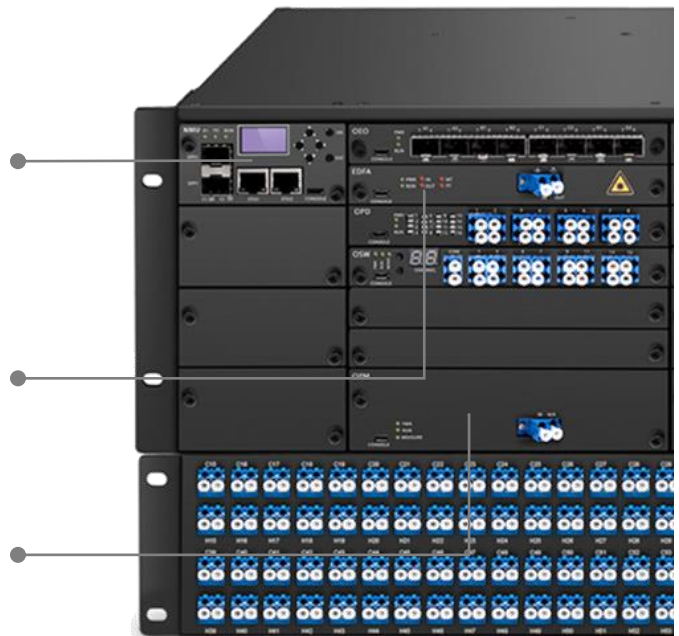
FMT 4U Managed Chassis

- 16 slots
- Hold up to 16x EDFA/OEO/OLP FMT pluggable modules

DWDM EDFA

- Used to extend the transmission distance by increasing power budget

OPM (Optical Performance Monitoring)

- Monitor each channel within a DWDM system
- Support up to 96 DWDM channels

OLP (Optical Line Protection Switch)

- Real-time monitoring
- Fast switching between primary and secondary optical lines

DCM (Dispersion Compensation Module)

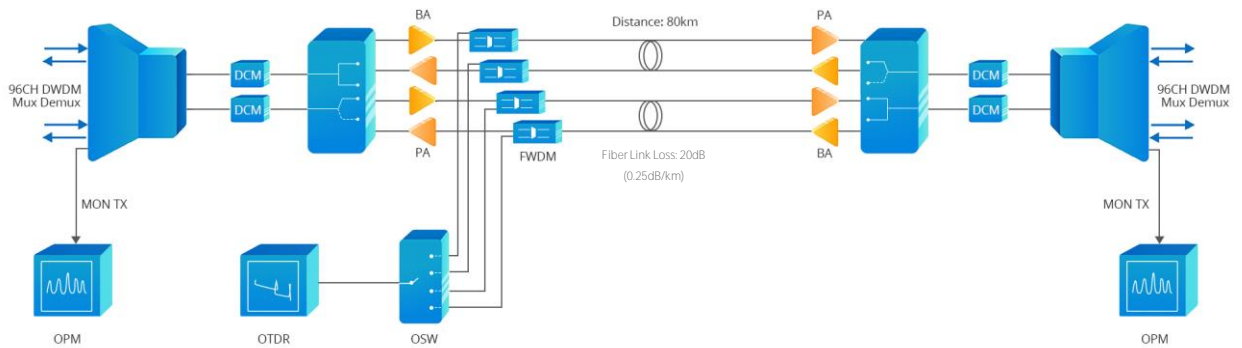- Designed to fix the form of optical signals that are deformed by chromatic dispersion

96ch DWDM Mux Demux

- 96CH (CH15 to CH62)
- Up to 960G transmission

Standardized Transport Solution

- Networking Modes: Point-to-Point
- Transmission Distance: 80km
- Transmission Capacity: Up to 96x 10G
- Fiber Link Loss: 20dB (0.25dB/km)
- Fiber Type: G.652D

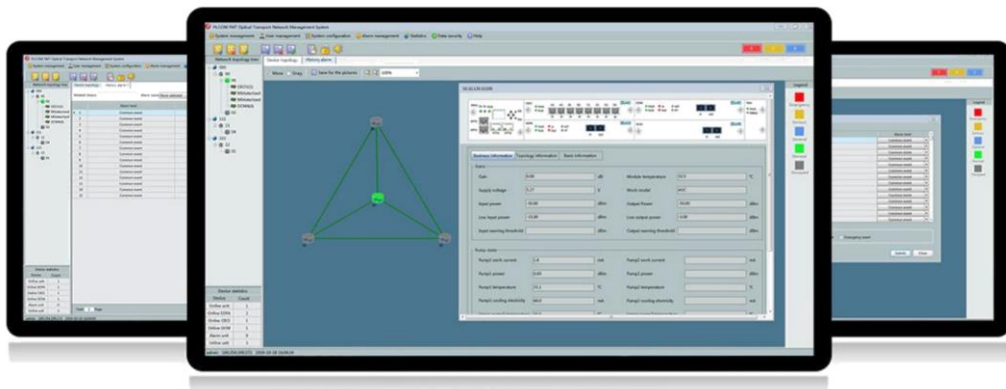## Solution Diagram

Packing List

ID	Description	Qty
35952	4U 16 slots Managed Chassis with NMS/NMU and Dual Power 100V-240VAC for Pluggable Module	2
66601	96CH CH15-CH62 Passive Dual Fiber DWDM Mux&Demux, LC/UPC, Occupies 2 slots	2
72283	O17/G17 Multi-channel BA C-band(1528~1564nm), AGC, LC/UPC, Occupies 1 slot	4
36524	G26/O16 Multi-channel PA C-band(1528~1564nm), AGC, LC/UPC, Occupies 1 slot	4
65782	20KM DCM C Band, G652 Fiber, LC/UPC, Occupies 2 slots	2
65781	40KM DCM C Band, G652 Fiber, LC/UPC, Occupies 2 slots	2
76098	30~42dB OTDR, 1550/1625nm, 9/125μm SMF, SC/UPC, Occupies 2 slots	1
73287	1x16 Multi-Channel Opto-Mechanical Optical Switches,1310nm / 1550nm, Occupies 2 slots	1
76097	Filter Wavelength Division Multiplexer FTTH/FTTX 1550T/1625R Fwdm Filter	4
71586	-40dBm~-10dBm OPM 1528nm-1568nm, Occupies 2 slots	2
66010	1+1 Optical Line Protection Switch, LC/UPC, Occupies 1 slot	2

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Technical Specification

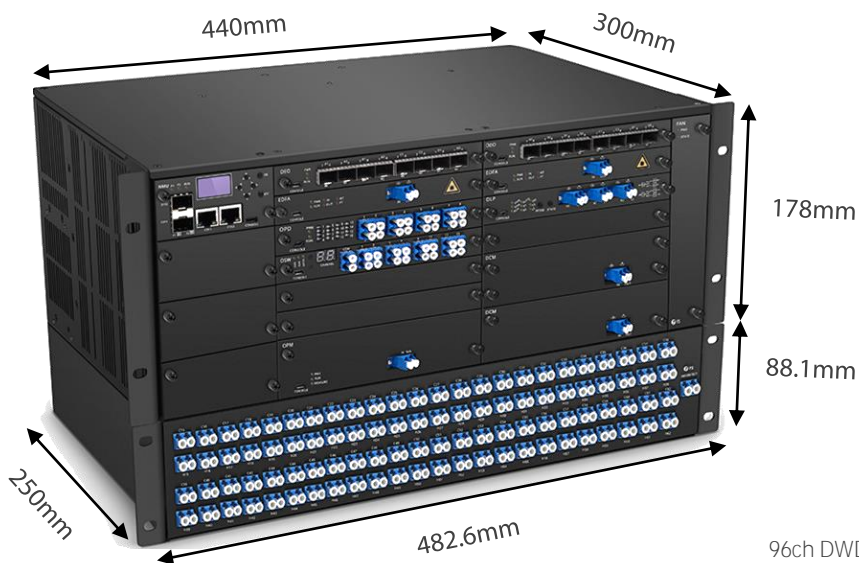| Parameter	Description
Topology	End-to-End DWDM networks
ITU Channel	96CH (CH15 to CH62)
Channel Spacing	50GHz (0.4nm)
Client Interface Protocols	SDH/SONET, PDH, OTN, Ethernet, SAN
Power Supply	Dual power, 100V-240VAC
Power Redundancy	1+1 backup AC power supply
Heat Dissipation	Hot swappable fan module
Ingress Protection	Non-waterproof
Quality Certification	CE, FCC, RoHS
Operating Temperature	-5~60° C
Storage Temperature	-40~80° C
Dimensions (HxWxD)	FMT 4U Managed Chassis: 7"x19"x11.81" (178x482.6x300mm) 96ch DWDM Mux Demux: 3.47"x19"x9.84" (88.1x482.6x250mm)
Management Interface	2*10/100/1000Base-T RJ-45 2*100Base-FX SFP 1*Console port
Management Protocols	SNMPv1, Monitor Online, Simple Management Tool
Management Channel	Optical Supervisory Channel (OSC)

Network Management System

The managed chassis is embedded with OSC for remote management and topology detection to be managed by MonitorOnline management system. The MonitorOnline software provides complete performance monitoring and management, including laser shutdown status, input power, output power, and etc to centralize OTN network management.
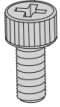
Dimension

FMT 4U Managed Chassis:

- Width: 482.6mm (19")
- Height: 178mm (7")
- Depth: 300mm (11.81")

96ch DWDM Mux Demux:

- Width: 482.6mm (19")
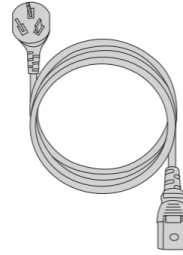- Height: 88.1mm (3.47")
- Depth: 250mm (9.82")

Accessories

Bracket Screws x16   Bracket Nuts x16   Power Cord x4   CD x2

Ordering Information

ID	Description
76087	9 Channels CWDM Single Fiber 50km End-to-End Transport Platform (Set of Two)
73805	18 Channels CWDM Dual Fiber 50km End-to-End Transport Platform (Set of Two)
90936	8 Channels DWDM Dual Fiber 20-140km End-to-End Transport Platform (Set of Two)
76086	16 Channels DWDM Dual Fiber 60km End-to-End Transport Platform (Set of Two)
73806	16 Channels DWDM Dual Fiber 120km End-to-End Transport Platform (Set of Two)
90935	16 Channels DWDM Dual Fiber 20-140km End-to-End Transport Platform (Set of Two)
73807	40 Channels DWDM Dual Fiber 100km End-to-End Transport Platform (Set of Two)
76085	40 Channels DWDM Dual Fiber 160km End-to-End Transport Platform (Set of Two)
90934	40 Channels DWDM Dual Fiber 20-140km End-to-End Transport Platform (Set of Two)
76084	96 Channels DWDM Dual Fiber 80km End-to-End Transport Platform (Set of Two)
73808	96 Channels DWDM Dual Fiber 100km End-to-End Transport Platform (Set of Two)

Note: If these WDM Transport Platforms can not meet your demands, please contact our expert consultant otn@fs.com for customized solution.

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            Germany   United States

                                  China

                    Singapore

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