FMT 18 Channels CWDM Dual Fiber End-to-End Transport Platform

Up to 180Gbps Dual Fiber BIDI End-to-End Transport

DESCRIPTION

Confronted with unpredictable traffic requirements, increasing bandwidth demands, and changing applications, network operators rely on the highly flexible capabilities of the widely deployed FMT Series Optical Transport Platform to respond to these conditions.

The FMT 1800 supports a broad range of applications including business Ethernet services, data center interconnect, mobile and fixed broadband backhaul, SAN and native video transport, private enterprise networks, and the migration of SONET/SDH, OTN, or WDM. Each shelf provides fabricless switching of packet, OTN and SONET/SDH with up to 180G of packet interface capacity and support for Ethernet Bridging.

Offering a future-proof 1U platform for metro-regional transport, the FMT 1800 has a heritage of low power

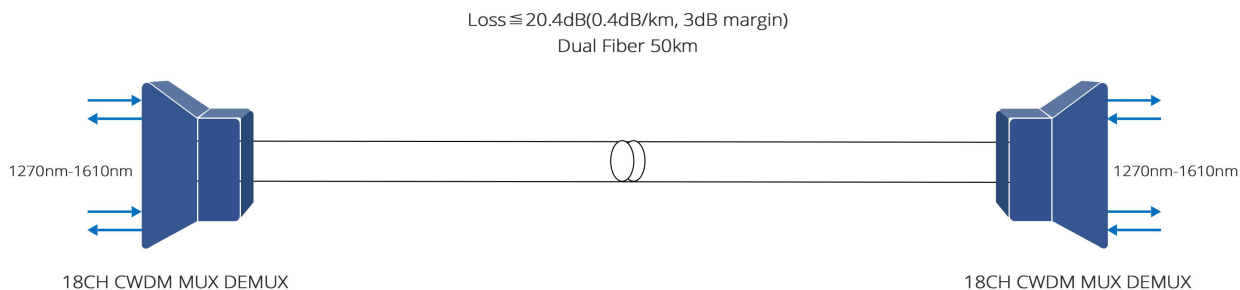and compact products and solutions, fitting ideally in metro deployments.

And the FMT 1800 is a 18 CWDM channels member of the FMT series intelligent CWDM multiplexer family which can achieve 30km @ 1G CWDM SFP 80km / 7.5km @ 10G CWDM SFP+ 40km / 35km @ 1G CWDM SFP 100km transceiver end-to-end dual fiber bi-directional transport when the fiber link loss is 0.4dB/km and the fiber type is G.652D. Optical layer modules and a wide range of intelligent services modules, including high-density 1G modules, can be installed in the 4 full size slots of the 1U chassis with controller cards and OSC. The AC powered version of the chassis is default and optimized for data center environments.

FMT 1800 IN SHORT

- **Flexible Networking:** Embedded intelligent CWDM MUX/DEMUX.

- **Robust:** Redundant hot pluggable power supply units (PSUs).

Field serviceable network management board without traffic interruption.

- **Channel Density:** System capacity up to 18 CWDM channel.

- **Compact Building Practice:** 1U x 19" form factor with OSC.

- **Standardization:** Already configured system and purchased directly.

- **Maximum Reach:** Up to 50km.

Up to 50 KM for 1 Gbps End-to-End Dual Fiber BIDI Transport

Depending on the type of connectivity required, it can handle all protocols up to 180Gbps.

Loss ≦ 20.4dB(0.4dB/km, 3dB margin)
Dual Fiber 50km

1270nm-1610nm

1270nm-1610nm

18CH CWDM MUX DEMUX

18CH CWDM MUX DEMUX

Standard Configuration

FMT 1800 Metro-Optical Transport Access

- 1U 4 Slots Managed Chassis Unloaded, Dual 100V-240VAC

- 18CH 1270-1610 Active DF CWDM Mux, 5.8dB, LC/UPC

- 18CH 1270-1610 Active DF CWDM Demux, 5.8dB, LC/UPC

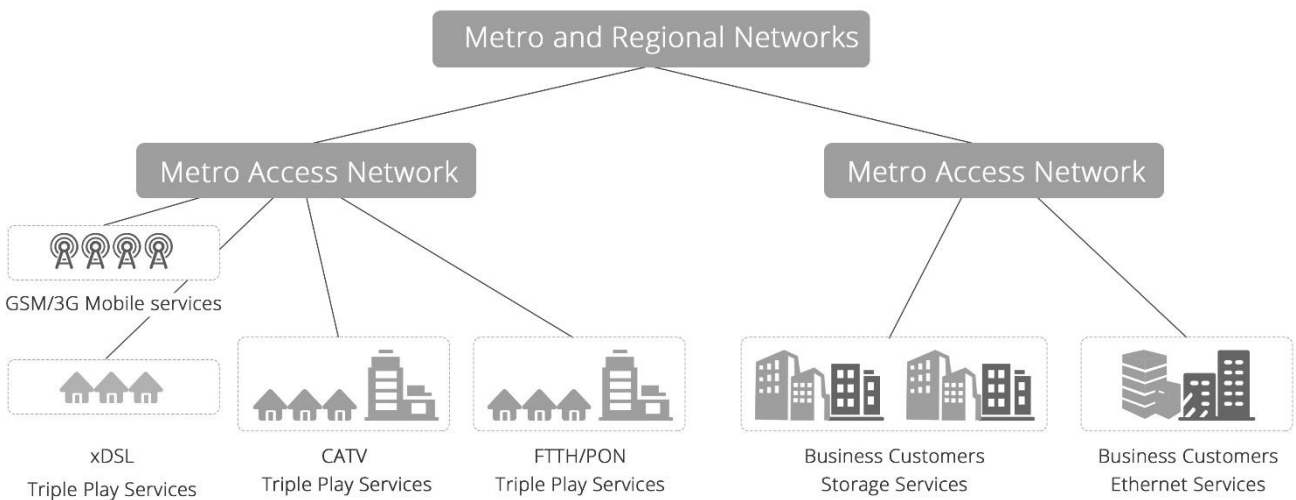- 4CH Multi-Rate WDM Transponder, Up to 11.3G Rate

Application

FMT 1800 is designed to support for metro/regional networks, such as GSM/3G mobile services, xDSL, CATV, FTTH/PON triple play services, business customers storage services and Ethernet services.

And FMT 1800 is a highly integrated extending multiplexing platform that can be used in financial institutions, universities, service providers, enterprises, dark fiber providers.
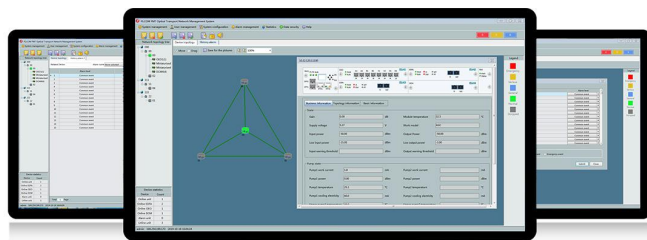

Optical Transport Network Management System

The FS.COM Network Managment Unit(NMU/NMS) module is the central management hub of the FMT system. Configuration and monitoring of integrated transponder are performed by SNMP or Command Line Interface. Using the corresponding MIB table, the transponder can be integrated into existing SNMP based management systems. In addition, an "Active Alarms List" is available which shows an overview of all the critical states. All alarms are stored in an alarm history file.

Features of Monitor Online

1) Email notification
2) Performance monitoring
3) Alarm and event management
4) User and security administration
5) Local and remote network management

TECHNICAL SPECIFICATIONS

System	Description
Topology	End-to-end CWDM networks using FMT 1800 efficient CWDM connect
Networking Modes	Dual fiber bi-directional transport
Transport Network	Metro WDM/dark fiber
Approvals	CE, FCC, RoHS
Dimensions (HxWxD)	1U managed chassis, 4 slots, 1.75"x19"x11.81" (44.5x482.6x300mm)
Channel Count	18 CWDM channel (1270-1610nm)
Supported Protocols	SDH/SONET, PDH, OTN, Ethernet, SAN, Video
Eye Safety	Automatic laser shut down
Power Supply	100V-240VAC 1.8A, 50W
Redundancy	Dual feeding, hot swappable
Operating Temp	-5~60°C
Storage Temp	-40~80°C
Heat Dissipation	1* fan module, hot swappable
Ingress Protection	Non-waterproof
Optical Specification	**Description**
Fiber Distance	36km @ 1G CWDM SFP 80km / 13.5km @ 10G CWDM SFP+ 40km / 50km @ 1G CWDM SFP 100km
Fiber Link Loss	0.4dB/km
Fiber Types	G.652D
Network Management	**Description**
Management Ports	2*10/100/1000Base-T RJ-45 2*100Base-FX SFP 1*Console port
Management Protocols	SNMP, monitor online, simple management tool
Management Channel	Optical supervisory channel (OSC) at 1510nm (standard)
DCN	OSC
Visual Indicators	LED status indicators for client ports, line interfaces, power

FMT 1800 Efficient CWDM Connect Packing List

ID	Description	Qty
39214	1U 4 slots Managed Chassis with NMS/NMU and Dual Power 100V-240VAC for Pluggable Module	2 pcs
74536	18CH 1270-1610nm 200Ghz Active CWDM Mux&Demux, LC/UPC, Occupies 2 slots	2 pcs
30515	4 Channels Multi-Rate WDM Converter (Transponder), Up to 11.3G Rate, Occupies 1 slot	4 pcs

Note: Free Accessory: 1*Software CD, 1*User Manual, 1*Test Report, 4*M6/Screws M6, 4*Floating Nuts.

Do you have any questions about our Access + Metro products? Just contact our expert consultant directly: otn@fs.com

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