

FS FMT Series Product Portfolio

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FS FMT Series

Overview

FMT series is a platform of low-power consumption that combines state-of-art electronics and superior optical performance and is available with an an Optical Supervisory Channel (OSC), which makes it possible to build or upgrade networks to meet the demands of today as well as future multi-services access requirements. This platform supports flexible 1G/10G/25G interface speeds in a compact 1/2/4U form factor with 4/8/16x OEO/EDFA/OLP/OPD service modules. It is suitable for DWDM dual-fiber/DWDM single-fiber/optical cable monitoring systems to provide cost-effective and flexible WDM solutions.

FMT series can support various management types that enable service configuration and performance monitoring. It can support unified management of network nodes via an easy-to-use system on browser and performance monitoring, alerts and optical power monitoring in real time, which can help you manage your network and devices more simply and conveniently.

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Chassis

FMT04-CH1U

FMT04-CH1U, 4 Slots 1U Managed Chassis Unloaded Platform, Redundant AC PSUs, Support SNMP V1 Network Management



Feature highlights

- Redundant Hot-pluggable 2x AC Power Supply Units
- Host Up to 4x Single Slot FMT Series Line Cards
- Enables Simplified Operations with Monitor Online System
- Right-to-Left Airflow
- Offers Field-replaceable Units, Ensuring no Service Impact during Failures

FMT-CH

FMT-CH, Customized 4/8/16 Slots 1U/2U/4U Managed Chassis Unloaded Platform, Redundant AC/DC PSUs, Support SNMP Network Management



Feature highlights

- 1U/2U/4U Housing are Available for Various Installation Demands
- 100V to 240VAC or 36V to 72VDC Power are Available to Meet Different Demands
- Host Up to 16x Single Slot FMT Series Line Cards
- Enables Simplified Operations with Monitor Online System
- Right-to-Left Airflow
- Offers Field-replaceable Units, Ensuring no Service Impact during Failures

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Transponder

FMT4DL-OEO10GSFP

FMT4DL-OEO10GSFP, 4 Channels WDM Transponder (Converter) for FMT Managed Chassis, 8 SFP/SFP+ Slots

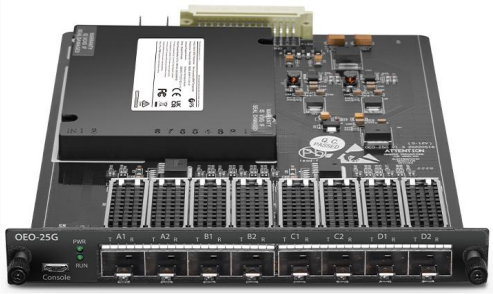


Feature highlights

- Support Multi-rate Transmission from 1G to 11.3G
- Support SDH STM-16/64, 1/2/4/8/10G Fiber Channel
- Support Standard MSA Pluggable SFP and SFP+
- Remote Management via Monitor Online System
- Ideal for Metro 10G Ethernet and Cable Landing Extensions
- Work as a Fiber Converter, WDM Transponder, or Repeater
- 4 Independent ITU Standard-based WDM Transponder
- Transparent Data Transmission with Low Latency

FMT4DL-OEO25GSFP28

FMT4DL-OEO25GSFP28, 4 Channels 25G WDM Transponder (Converter) for FMT Managed Chassis, 8 SFP28/SFP+ Slots



Feature highlights

- Support multi-rate transmission from 8G to 28.1G
- Support STM64/10GE/25GE/FC16/FC32
- Support Standard MSA Pluggable SFP+ and SFP28
- Remote Management via Monitor Online System
- Ideal for Metro 25G Ethernet and Cable Landing Extensions
- Work as a Fiber Converter, WDM Transponder, or Repeater
- 4 Independent ITU Standard-based WDM Transponder
- Transparent Data Transmission with Low Latency

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C-Band EDFA

FMT26PA-EDFA

FMT26PA-EDFA, 26dB Gain C-band DWDM EDFA Pre-amplifier, 16dBm Output



Feature highlights

- Support 1528nm~1564nm Wide Wavelength Range
- PA with an Optimum Gain of 26dB and 16dBm Output
- 4.5dB Low Noise Figure to Improve Transmission Quality
- Achieve Optical Power Attenuation used with FS-VOA-C
- Support Up to 40 Wavelengths (100GHz)
- Support AGC Operation Mode
- Suitable for Long-haul LANs and MANs

FMT20PA-EDFA

FMT20PA-EDFA, 20dB Gain C-band DWDM EDFA Pre-amplifier, 13dBm Output



Feature highlights

- Support 1528nm~1564nm Wide Wavelength Range
- PA with an Optimum Gain of 20dB and 13dBm Output
- 4.5dB Low Noise Figure to Improve Transmission Quality
- Achieve Optical Power Attenuation used with FS-VOA-C
- Support Up to 40 Wavelengths (100GHz)
- Support AGC Operation Mode
- Suitable for Long-haul LANs and MANs

FMT17BA-EDFA

FMT17BA-EDFA, 17dB Gain C-band DWDM EDFA Booster Amplifier, 17dBm Output



Feature highlights

- Support 1528nm~1564nm Wide Wavelength Range
- BA with an Optimum Gain of 17dB and 17dBm Output
- 4.5dB Low Noise Figure to Improve Transmission Quality
- Achieve Optical Power Attenuation used with FS-VOA-C
- Support Up to 40 Wavelengths (100GHz)
- Support AGC Operation Mode
- Suitable for Long-haul LANs and MANs

EDFA-LA

Customized In-Line EDFA for DWDM Solution



Feature highlights

- Gain, Input/Output Power, and Housing are Free to Choose and Meet Different Demands
- Supports up to 96 Wavelengths
- Supports AGC Operation Modes
- Extending the Optical Link Power Budget for Building Long Distance DWDM Solutions

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C-Band EDFA

EDFA-PA

Customized Pre-Amplifier EDFA for DWDM Solution



Feature highlights

- Gain, Input/Output Power, and Housing are Free to Choose and Meet Different Demands
- Supports up to 48 Wavelengths
- Supports AGC Operation Modes
- Extending the Optical Link Power Budget for Building Long Distance DWDM Solutions

EDFA-BA

Customized Booster EDFA for DWDM Solution



Feature highlights

- Gain, Input/Output Power, and Housing are Free to Choose and Meet Different Demands
- Supports up to 48 Wavelengths
- Supports AGC Operation Modes
- Extending the Optical Link Power Budget for Building Long Distance DWDM Solutions

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Extended C-Band EDFA

FMT26PA-51EDFA

FMT26PA-51EDFA, 26dB Gain Extended C-Band DWDM EDFA Pre-amplifier, 20dBm Output



Feature highlights

- Support 1528nm-1568nm for Broader Amplification Bandwidth
- PA with an Optimum Gain of 26dB and 20dBm Output
- 4.5dB Ultra Low Noise Figure to Improve Transmission Quality
- Achieve Optical Power Attenuation Used with FS-VOA-C
- Support Up to 48/96 Wavelengths
- Support AGC Operation Mode

FMT17BA-51EDFA

FMT17BA-51EDFA, 17dB Gain Extended C-Band DWDM EDFA Booster Amplifier, 20dBm Output



Feature highlights

- Support 1528nm-1568nm for Broader Amplification Bandwidth
- BA with an Optimum Gain of 17dB and 20dBm Output
- 4.5dB Ultra Low Noise Figure to Improve Transmission Quality
- Achieve Optical Power Attenuation Used with FS-VOA-C
- Support Up to 48/96 Wavelengths
- Support AGC Operation Mode

Array EDFA

FMTPA-Array

Customized Multiports DWDM Array EDFA Pre-amplifier



Feature highlights

- Output Power: 13-20 dBm Per Port
- 4.5dB Low Noise Figure to Improve Transmission Quality
- Up to 4 Output Ports
- Support Up to 40/48 Wavelengths
- Support AGC Operation Modes

FMTBA-Array

Customized Multiports DWDM Array EDFA Booster Amplifier



Feature highlights

- Output Power: 13-20 dBm Per Port
- 4.5dB Low Noise Figure to Improve Transmission Quality
- Up to 4 Output Ports
- Support Up to 40/48 Wavelengths
- Support AGC Operation Modes

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High Power Amplifier

HPA

Customized FTTx PON High Power 1550nm EYDFA



Feature highlights

- Support High Output Power up to 23dBm
- 5dB Low Noise Figure to Improve Transmission Quality
- Support 1540-1565nm Wide Wavelength Range
- Support APC Operation Mode
- Suitable for PON and CATV Networks

Semiconductor Optical Amplifier

FS-SOA

Customized 1310nm Semiconductor Optical Amplifier (SOA)



Feature highlights

- Output Power: 13-20 dBm Per Port
- 4.5dB Low Noise Figure to Improve Transmission Quality
- Up to 4 Output Ports
- Support Up to 40/48 Wavelengths
- Support AGC Operation Modes

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Dispersion Compensation Module

FMT40-DCM

FMT40-DCM, C-Band 40km DCF-based Passive Dispersion Compensation Module



Feature highlights

- Long Distance DWDM Optimization for 40km
- 100% Slope Compensation of G.652 Fiber in C-band
- Low Insertion Loss ≤4.2dB, Low PMD ≤0.8ps
- Completely Passive-No Powering Utilized
- Low Latency ≤10μs, Ideal for Time-sensitive Networks
- Plug-in Module for FMT Chassis to Realize Monitoring
- Support SDH/SONET, DWDM, CATV System, etc

FMT80-DCM

FMT80-DCM, C-Band 80km DCF-based Passive Dispersion Compensation Module



Feature highlights

- Long Distance DWDM Optimization for 80km
- 100% Slope Compensation of G.652 Fiber in C-band
- Low Insertion Loss ≤5.8dB, Low PMD ≤1.2ps
- Completely Passive-No Powering Utilized
- Low Latency ≤10μs, Ideal for Time-sensitive Networks
- Plug-in Module for FMT Chassis to Realize Monitoring
- Support SDH/SONET, DWDM, CATV System, etc

FS-DCM

Customized C-Band DCF-based Dispersion Compensation Module



Feature highlights

- Long Distance DWDM Optimization from 20km to 100km
- Plug-in Module and 1U Rack Mount for Versatile Applications
- 100% slope Compensation of G.652 Fiber in C-band
- Completely Passive-No Powering Utilized
- Low Latency ≤10μs, Ideal for Time-sensitive Networks
- Plug-in Module for FMT Chassis to Realize Monitoring
- Support SDH/SONET, DWDM, CATV System, etc

FS-TDCM

Customized C-band Tunable Dispersion Compensation Module (TDCM)



Feature highlights

- Long-distance DWDM Optimization for 20km and 40km Ranges
- 100% Slope Compensation of G.652 Fiber in C-band
- Provides Accurate, Adjustable Dispersion Compensation
- Low Latency ≤10ns, Ideal for Time-sensitive Networks
- Plug-in Module for FMT Chassis to Realize Monitoring
- Support SDH/SONET, DWDM, CATV System, etc

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Optical Line Protection

FMT-OLP2

FMT-OLP2, 1+1 Optical Line Protection Switch for FMT Managed Chassis



Feature highlights

- Support Dual Fiber Bidirectional Protection Mode
- Automatic Switch <15ms Ensures Fast Recovery
- Independent of Data Rate, Format and Wavelength
- Real-time Monitoring of Standby Optical Power
- Highly Integrated Plug-in Design Saves Cabinet Space
- Remote Configuration Through SNMP Management

FMT-OLP

FMT-OLP, 1:1 Optical Line Protection Switch for FMT Managed Chassis



Feature highlights

- Support Dual Fiber Bidirectional Protection Mode
- Automatic Switch <35ms Ensures Fast Recovery
- Independent of Data Rate, Format and Wavelength
- Real-time Monitoring of Standby Optical Power
- Highly Integrated Plug-in Design Saves Cabinet Space
- Remote Configuration Through SNMP Management

FS-OLP

Customized Optical Line Protection Switch (OLP) for FMT Managed Chassis



Feature highlights

- Support Dual Fiber Bidirectional Protection Mode
- Independent of Data Rate, Format, and Wavelength
- Automatic Switch Ensures Fast Recovery
- Real-time Monitoring of Standby Optical Power
- Highly Integrated Plug-in Design Saves Cabinet Space
- Remote Configuration Through SNMP Management

FMT-BDOLP

Customized 1+1 BIDI Optical Line Protection Switch (OLP) for FMT Managed Chassis



Feature highlights

- Support Single Fiber Bidirectional Protection Mode
- Automatic Switch <15ms Ensures Fast Recovery
- Independent of Data Rate, Format and Wavelength
- Real-time Monitoring of Standby Optical Power
- Highly Integrated Plug-in Design Saves Cabinet Space
- Remote Configuration Through SNMP Management

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Fiber Monitoring

FMT-4OPD

FMT-4OPD, 4 Channels 1550nm Optical Power Detection OPD (AIU)



Feature highlights

- Wide Range of Monitoring
- Support Online and Non-online Collection
- Support Multi-channel Real-time Monitoring
- Support 1550±20 Optical Signal Monitoring

FMT-OPD

Customized Optical Power Detection OPD (AIU)



Feature highlights

- Wide Range of Monitoring
- Support Online and Non-online Collection
- Support Multi-channel Real-time Monitoring
- Support 1310±20/1550±20 Optical Signal Monitoring

FMT-OPM

FMT-OPM, Optical Performance Monitoring (OPM)



Feature highlights

- High Reliability and Repeatability
- Support Up to 96CH DWDM Optical Signal Monitoring
- Support 100Ghz/50Ghz DWDM Optical Signal Monitoring
- Support Accurate Measurement of Wavelength, Optical Power and OSNR

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Fiber Monitoring

FMTOSW-1x16

Customized 1x16 Multi-Channel MEMS Optical Switches with Adjustable Channels Control



Feature highlights

- Low Insertion Loss, Fast Switching
- Support Work Channel Digital Display, Intuitive
- Support Manual Switching Modes by the NMU
- Unaffected by the Polarization and Wavelength
- Switching Time Interval from 1 Second to 99 Hours 59 Minutes and 59 Seconds

FMT-OTDR

Customized Optical Time Domain Reflectometer (OTDR)



Feature highlights

- Remote Fault Detection and Isolation
- Support Fiber Level Fault, Span Level Fault, and Long-span Monitoring
- High Dynamic Range Combined with High Resolution for Highly Accurate Fiber Characterization

FMT-LSU

Customized LSU Light Source Unit, Pluggable Module for FMT Multi-Service Transport Platform



Feature highlights

- Good light stability, high luminous power andlongworking life
- Single card supports up to 16 light sources, supportchannel lighting control
- Remote Management by the Network ManagementUnit

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Accessories

FMT-BDSplitter

FMT-BDSplitter, Optical Splitter for FMT Managed Chassis



Feature highlights

- Independent of Data Rate, Format and Wavelength
- Real-time Monitoring of Standby Optical Power
- Transparent Transmission Characteristic
- Uniform Distribution of Optical Signal
- Reduce the Loss Caused by Line Fault
- Fast Switching Between Primary and Secondary Optical Lines
- Highly Integrated Plug-in Design Saves Cabinet Space

FSBR-1x2

Customized 1x2 Single Fiber DWDM Splitter Red/Blue C Band Filter



Feature highlights

- High Level of Integration by Plug-in Design
- High Channel Isolation and Excellent Environmental Reliability
- Separate and Polymerize Red-band Signal and Blue-band Signal

FS-VOA-C

Customized Variable Optical Attenuator, LC/UPC



Feature highlights

- Wide operating wavelength range: 0~15dB, 0~30dB
- Ultra Wide Adjustable Range
- Regulation Accuracy: 0.1dB
- High Multichannel Attenuation Stability
- Single Card Supports Multi-channel Signal Attenuation
- Online Attenuation Adjustment Makes Business More Safe
- Automatically Attenuation Adjustment Makes the Network Intelligent

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Accessories

FMT-MNG-S

FMT-MNG-S, Network Management Unit for FMT 1U, 2U and 4U Managed Chassis, , 2x 100Base-X SFP Ports, 2x 10/100Base-T RJ45 Ports



Feature highlights

- Independent of Data Rate, Format and Wavelength
- Real-time Monitoring of Standby Optical Power
- Transparent Transmission Characteristic
- Uniform Distribution of Optical Signal
- Reduce the Loss Caused by Line Fault
- Fast Switching Between Primary and Secondary Optical Lines
- Highly Integrated Plug-in Design Saves Cabinet Space

FMT124U-PS

Customized 1x2 Single Fiber DWDM Splitter Red/Blue C Band Filter



Feature highlights

- Support 100V-240VAC or 36V-72VDC Power Supply
- 1+1 Redundant Power Supply
- Hot-swappable
- 100W Power Consumption

FMT-FAN

Customized Cooling Fan Module Tailored for FMT 1U/2U/4U Managed Chassis



Feature highlights

- 1 Cooling Fan Module with 3 Fans
- Hot-swappable
- Left to Right Airflow

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