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FS MS8100 Series Product Portfolio

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FS MS8100 Series

Overview

MS8100 5U Chassis supports 12/15 slots for transponder, SONET/SDH service card, OTN line card, EDFA, Mux/Demux and OLP which allows you to optimize a solution for your specific network needs. Each board has fixed slots for clear organization.

The MS8100 series is a high-security full-service access transmission platform dominated by key account services. Based on MS-OTN architecture, the MS8100 series can supports OTN cross-connect, MPLS-TP packet switching and SDH cross-connect, with high integration, full-service access capability and flexible three-core cross-scheduling capability, to meet the needs of multiple services and high network security. It is suitable for applications in telecom operators' core and edge networks, data centers, enterprise networks and WANs, providing high-capacity multi-service transmission requirements. The MS8100 series uses the FCP MS software and supports CLI, Telnet and SNMP managements that enable service configuration and performance monitoring. It is easy to check important data, alarms, reports, and much more on-site or remotely at any time.

Chassis

[MS8100-CH5U](#)

MS8100-CH5U, 12 Slots 5U Managed Unloaded Chassis, with MS-OTN Architecture, Support OTN/PTN/SDH, Redundant AC PSUs, Support FCP MS Management



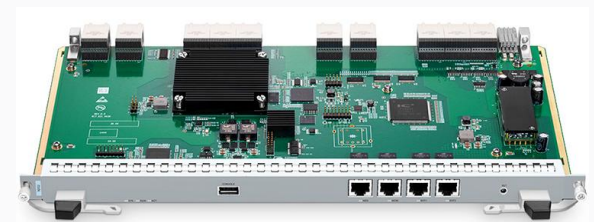
Feature highlights

- Support Three Different Services Types Including OTN, PTN and SDH
- Support Uniform Cross Connection, ODUk Cross-connection Capacity up to 210 Gbit/s
- Support Centralized Switching and Processing of Packet Services, Capacity up to 280 Gbit/s
- Can also Be Configurable As a L1/L2 Switch
- Support Network Management Cascading, Managing Multiple Devices on One Site
- Support OCP, OMSP Optical Layer Protection and MSP, SNCP Electrical Layer Protection
- Two Redundant and Field Replaceable AC/DC Power Supply Units
- Aim at Access and Aggregation Layer of Metro Networks

Main Control Card

[NXU](#)

NXU, Network Management Cross Card for MS8100-CH5U Managed Chassis, Up to 210G Capacity of Cross Connection



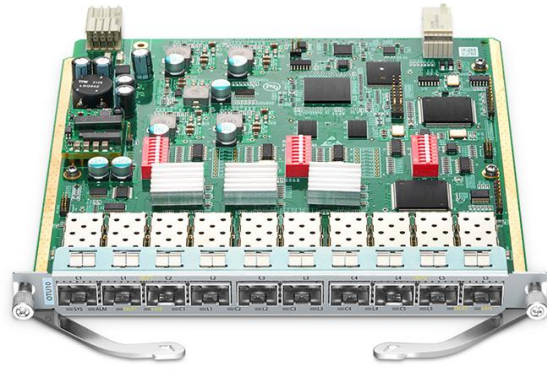
Feature highlights

- Hot-Pluggable NMS Switching Card Supports 1+1 Backup with MS8100-CH5U Chassis
- Support Three Different Services Types Including OTN, PTN and SDH
- Support Uniform Cross Connection, ODUk Cross-connection Capacity up to 210 Gbit/s
- Support Centralized Switching and Processing of Packet Services, Capacity up to 280 Gbit/s
- Support Network Management Cascading, Managing Multiple Devices on One Site
- Provide Seamless Connection with Upper Network to Implement Network Evolution
- Low Latency <50ms

Transponder

OTU10

MS8100 OTU10, 5 Channels WDM Transponder (Converter), 10 SFP/SFP+ Slots, with Multi-service Multi-rate 2-way OCP Protection



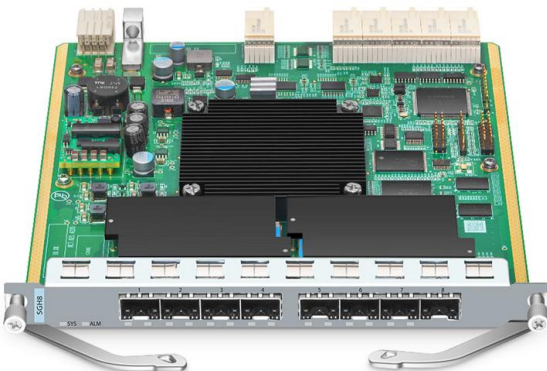
Feature highlights

- Support OTU and OCP
- Support 1.25Gbit/s-11.317Gbit/s Rate
- Support up to 5 ways of OTU Services
- Support ALS and Link-state Tracking
- Support Hot Pluggable and Low Power Consumption
- Support OMSP, OCP Dual Protection Model
- Low Latency

SONET/SDH Service Card

SGH8

MS8100 SGH8, 8 x SFP, SDH Tributary Board or 8-way GE Dual-span Service Board

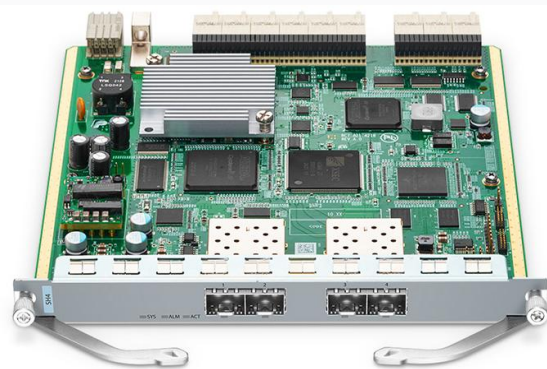


Feature highlights

- Support VC4, VC12, VC3 Level Cross Connection
- Supports SNCP 1+1 Protection on the SDH VC4/VC3/VC12 Level
- Support Processing Channel Overheads and the AU/TU Pointers
- Support Port-based VLAN Processing
- Performance Monitoring and Alarm Monitoring
- Support Optical Interface and VC4/VC3/VC12 Internal Loopback and External Loopback
- Support 8-way STM-1/4 or Configure Interfaces 1 and 5 with 2-way STM-16

SH4

MS8100 SH4, 4 x SFP, SDH Cross Connection and Aggregation Card, Support Interface Rate Configuration



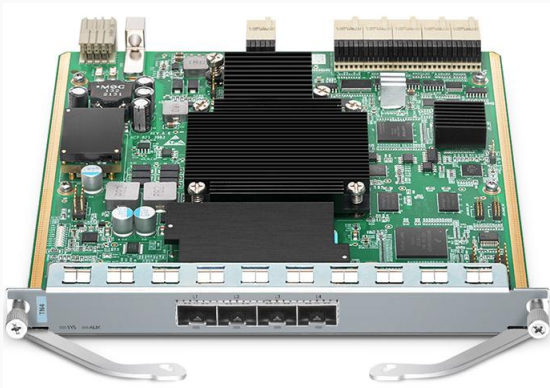
Feature highlights

- VC4/VC12/VC3 Level Cross Connection
- Support Intra-card, Inter-card Interface, Linear Multiplexing Section and SNCP Protection
- Support Processing Section Overheads of STM-16/STM-4/STM-1 Signals and AU/TU Pointer
- Configuring and Querying the J0/J1/J2/C2/V5/S1/K1/K2 byte
- Support 2 line-Side Recovery Clock Sources
- Support Alarms and Performance of Regeneration Section, Multiplex Section, and VC4
- Support Alarm Level Classification
- Support Optical Interface Internal Loopback and External Loopback

OTN Line Card

[TN4](#)

MS8100 TN4, 4 x SFP+, 4-way OTU2 Hybrid Line Board



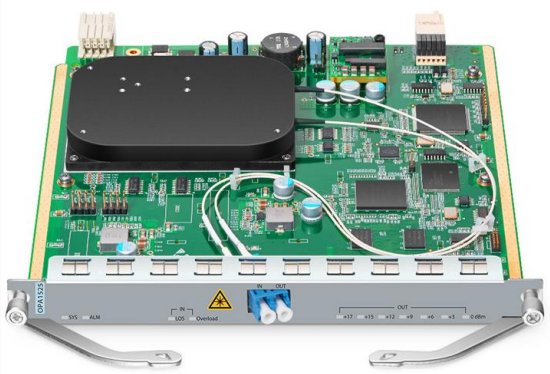
Feature highlights

- Multi-service Hybrid Transmission (SDH\PTN\OTN)
- Support Intra-board/Inter-board OCH, SNCP, and 1+1 MSP Protection on OTU2 Interface
- Support up to 16 GCC Channels , and GCC0/1/2 are Optional
- Support No FEC, and GFEC
- Support Service and Performance Alarm
- Support for Receive Recovery Clock Signals and Transmit Frequency

Optical Amplifier

[OPA1525](#)

MS8100 OPA1525, 19-25dB Gain DWDM EDFA Pre-Amplifier, 15dBm Output

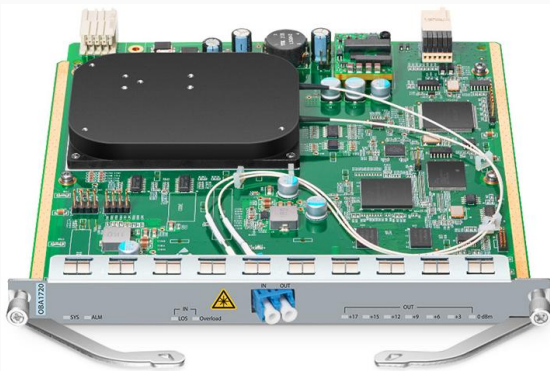


Feature highlights

- EDFA Amplifier With an Optimum Gain of 19-25dB
- Support C-band 40CH DWDM System
- Supports AGC, APC and ACC Operation Modes
- Extending the Optical Link Power Budget for Building Long Distance DWDM Solutions
- Supports Dynamic Gain Tuning over a 6-dB Range

[OBA1720](#)

MS8100 OBA1720, 14-20dB Gain DWDM EDFA Booster Amplifier, 17dBm Output



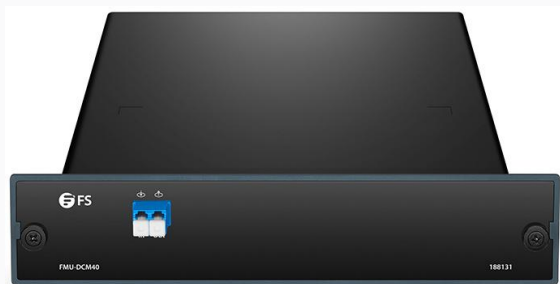
Feature highlights

- EDFA Amplifier With an Optimum Gain of 14-20dB
- Support C-band 40CH DWDM System
- Supports AGC, APC and ACC Operation Modes
- Extending the Optical Link Power Budget for Building Long Distance DWDM Solutions
- Supports Dynamic Gain Tuning over a 6-dB Range

Dispersion Compensation Module

[FMU-DCM40](#)

FMU-DCM40, 40KM DCF-based Passive Dispersion Compensation Module, LC/UPC

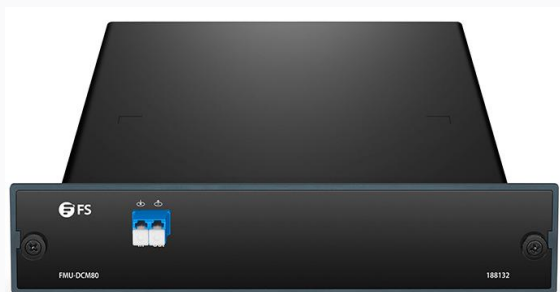


Feature highlights

- Long Distance DWDM Optimization for 40km
- 100% Slope Compensation of G.652 Fiber in C-band (1525nm-1565nm)
- Low Insertion Loss $\leq 4.2\text{dB}$, Low Polarization Mode Dispersion $\leq 0.8\text{ps}$
- Passive Device, Support SDH/SONET, DWDM, CATV System, etc.
- Support Service and Performance Alarm
- Installed Outside the Chassis, Do Not Occupy the Slots

[FMU-DCM80](#)

FMU-DCM80, 80KM DCF-based Passive Dispersion Compensation Module, LC/UPC



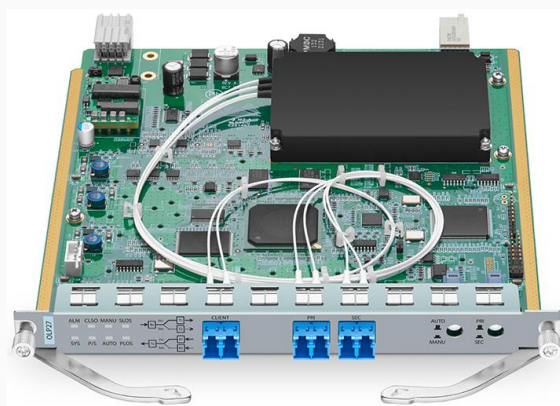
Feature highlights

- Long Distance DWDM Optimization for 80km
- 100% Slope Compensation of G.652 Fiber in C-band (1525nm-1565nm)
- Low Insertion Loss $\leq 5.8\text{dB}$, Low Polarization Mode Dispersion $\leq 1.2\text{ps}$
- Passive Device, Support SDH/SONET, DWDM, CATV System, etc.
- Installed Outside the Chassis, Do Not Occupy the Slots

Optical Line Protection

[OLP27](#)

MS8100 OLP27, 1 + 1 Optical Line Protection Switch (OLP)



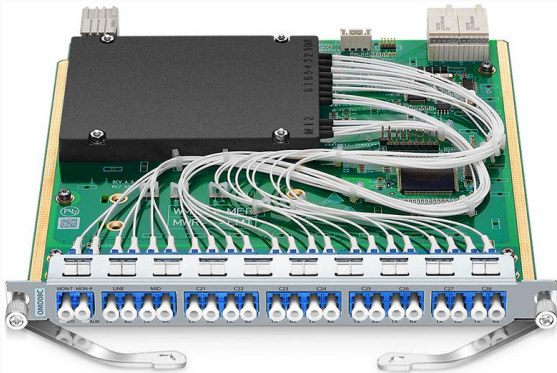
Feature highlights

- Fast Recovery, Less than 10ms
- Power Off/On Latch Feature
- Protect $1310 \pm 50\text{nm}$ / $1550 \pm 50\text{nm}$ Multiple Wavelengths
- Support Auto Return, Auto No Return, Manual/Forced Mode Optical Switch
- Allow Users to Adjust the Decision Threshold Optical Switching Power
- Real-time Monitoring Power Level of Fiber
- Support SNMP Management
- Support WDM, OTN, PDH Systems

Mux & Demux

OMD08C

Customized Active Dual Fiber DWDM Mux Demux, 8 Channels 100GHz, with Monitor Port and Cascade Port, LC/UPC, MS8100 Plug-in Module



Feature highlights

- Protocol Transparent Any Rate, Any Service
- Multiplexing of up to 8 Channels on Fiber Pair to Maximize Usefulness of Existing Fiber
- Low Insertion Loss: Max 3.2dB
- Compliant with All-Optical Networking Products (ITU Grid)
- Monitor Port Taps off 5% of the Signal to Monitor the Channel Power Levels
- Realize Wavelength Performance Monitoring through FCP MS Network Management
- Support Device Serial Connection Through Cascading Port
- Querying Basic Information about the Card, Interfaces and Added/Dropped Wavelength



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