

Huawei Enterprise Backbone OTN Equipment

OSN 9800 M24



Enterprise Network Challenges

With the rapid development of technologies such as cloud computing, big data, and Internet of Things (IoT), the digital construction of enterprises has high demands of infrastructure networks.

Flexible adaptation



- Compatible with existing traditional services
- Flexible investment and on-demand procurement

Higher bandwidth



- Satisfies new service requirements
- Supports continuous evolution

High security & reliability



- High reliability
- Comprehensive network protection

Easy O&M



- Simple O&M reduces complexity
- Fast service provisioning

Tailored for Enterprises

1 Flexible transport platform

- Compact size and flexible slots
- MS-OTN service platform

2 Ultra-broad transport pipe

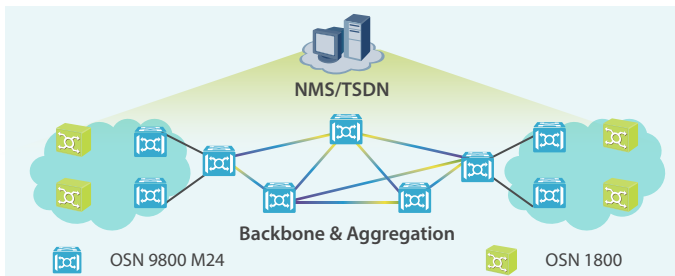
- Over 20T single-fiber bandwidth
- Huge cross-connect capacity

3 High reliability

- Redundancy of key components
- Comprehensive network protection

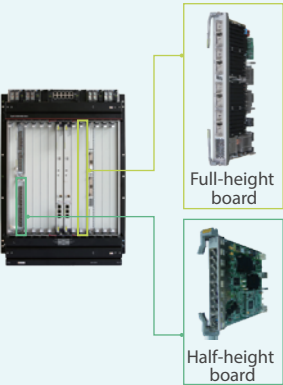
4 Intelligent operation

- OD/FD/Intelligent latency measurement



Flexible Transport Platform

- High integration and easy deployment



The diagram shows a chassis with multiple slots. A yellow box highlights a full-height board, and a green box highlights a half-height board. Lines connect these boxes to their respective board images.

Low power consumption and compact size

- 1+1/2+2 flexible power supply
- Applicable to various installation scenarios

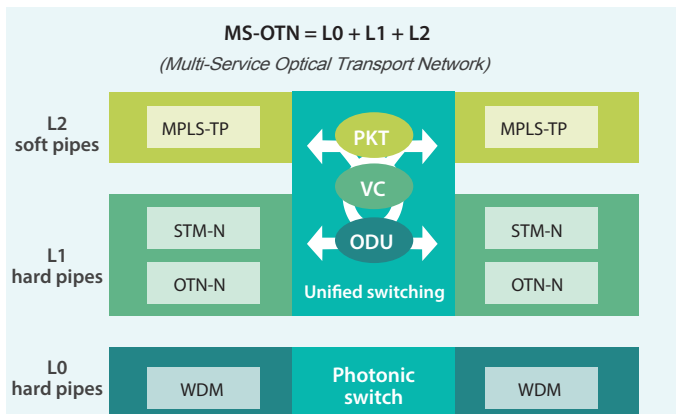
Flexible slots and multi-service access

- Flexible configuration of large and small boards and variable slots

Powerful scalability

- 2.4T cross-connect capacity and 4.8T in the future
- 24 slots for service boards

- MS-OTN supporting flexible service transmission



- Universal service boards, allow multiple functions through one board

OTN
tributary board



+

SDH
line board



+

OTN
line board



+

Universal
line board



=



- Integration of four types of boards: OTN tributary, SDH line, OTN line, and universal line boards
- Independent configuration of the port working mode and flexible allocation
- 100M–10G Any service access

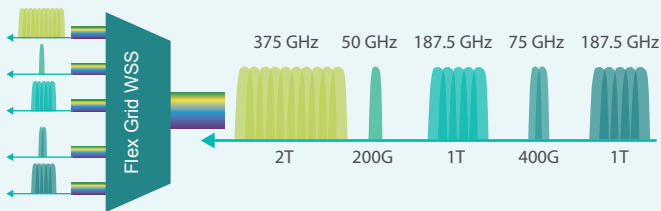
Large Capacity

- Ultra-broad transport pipe



- 24 service slots, 2.4T/4.8T cross-connect capacity
- 100G/200G/400G per wavelength and over 20T capacity per fiber
- 1T/2T smooth evolution

- Flex grid improving spectral efficiency



$96 \lambda * 200G @ 50 \text{ GHz channel spacing} = > 128 \lambda * 200G @ \text{Flex grid}$

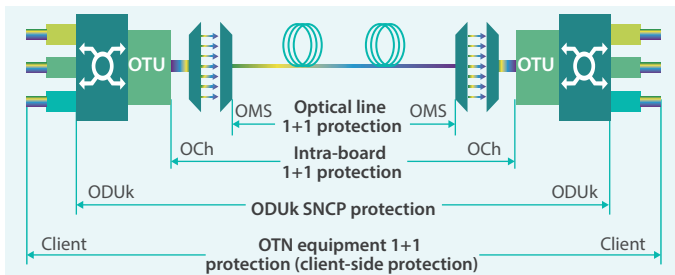
The capacity can be increased by up to 33%.

High Reliability

- Redundancy design for key components, ensuring high reliability

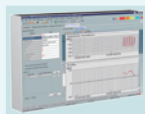
Equipment Type	Protection Type
Power supply board	1+1 or 2+2
System control board	1+1 protection
Cross-connect board	1+1 or 1:3
Fan	1+1 protection

- Comprehensive service protection, ensuring network reliability



Easy O&M

Intelligent optical layer management

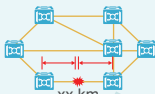


Online monitoring

Quick fault diagnosis

Automatic optimization

Intelligent fiber management



OSC board (with eOTDR)

Online measurement

Online verification

Quick positioning

Intelligent delay measurement



E2E delay



Online measurement

High precision

Route optimization

Product Specifications

Subrack Dimensions (H x W x D)	747.2 mm x 442 mm x 295 mm	
Cabinet	N63B, N63E, 19-inch	
Number of Slots for Service Boards	12 full slots or 24 half slots	
Switching Capability	ODUK: 4.8T; PKT: 2.4T VC: 40G (HO) x 24, 80G (LO)	
Maximum Number of Wavelengths	Fixed grid: 96/50 GHz Flex grid: The maximum number is related to the width of the flex channel.	
Wavelength Range	1529.16 nm–1567.13 nm (extended C band, ITU-T G.694.1)	
Maximum Rate per Channel	400 Gbit/s	
Supported Service Types	SDH, SONET, Ethernet, SAN, OTN, and video	
Line Rate	10 Gbit/s, 100 Gbit/s, 200 Gbit/s, and 400 Gbit/s	
Supported Pluggable Optical Modules	eSFP, SFP+, TSFP+, CFP, CFP2, and QSFP28	
Network Topology	Point-to-point, chain, star, ring, ring-with-chain, tangent ring, intersecting ring, and mesh	
Redundancy and Protection	Network-Level Protection (OTN)	Client 1+1 protection, intra-board 1+1 protection, LPT, ODUk SNCP, and tributary SNCP
	Network-Level Protection (OCS)	SNCP, linear MSP, and ring MSP
	Equipment-Level Protection	Cross-connect, system control, clock, and power supply unit redundancy
Synchronization	Synchronous Ethernet, IEEE 1588v2	
Standard Working Voltage	-48 V DC/-60 V DC	
Equipment Operating Environment (Subrack Temperature)	Long-term operation: 0 to 45°C Short-term operation: -5°C to 50°C	



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