



Huawei Enterprise WDM

Portfolio



01 OSN902



Dimensions (H x W x D) (mm)	86.1 x 442 x 600
Cabinet	19-inch cabinet
Number of Slots for Service Boards	6
Service Type	10GE, 40GE, 100GE, FC1600, and FC3200
Supported Pluggable Optical Modules	QSFP+, QSFP28
Line Rate	100G (PDM-QPSK) programmable 200G (PDM-16QAM) programmable
Equipment-level Protection	1+1 power supply backup, 2+1 backup for the fan tray assembly
Network-level Protection	Client 1+1 protection, intra-board 1+1 protection, and optical line protection
Management Interfaces	CLI/SNMP/U2000/NETCONF
Nominal Working Voltage	90V to 264V AC, 47 to 63 Hz 192V to 288V HVDC
Heat Dissipation	Front air inlet and rear air outlet
Power Consumption	1200 W (max.)
Operating Environment (Temperature)	0°C (32°F) to 40°C (104°F)
Operating Environment (Relative Humidity)	5% to 95%

02 OSN 1800



1800 II Compact

Dimensions (H x W x D) (mm)	88 x 442 x 220
Cabinet	<ul style="list-style-type: none"> ETSI 300-mm deep cabinet, such as N63E and N63B 19-inch cabinet or 19-inch open rack F01S300 cabinet (only when working with F3SCC)
Number of Slots for Service Boards	DC-powered chassis: 7 AC-powered chassis: 5
Optical Switching Capability	1-degree to 9-degree ROADM
Electrical Switching Capability	Inter-board: Any services at a rate lower than 1.25 Gbit/s and 10GE LAN services. Intra-board: Any services at a rate lower than 2.5 Gbit/s VC-4/VC-12 and ODUk(k=0, 1, 2, flex) services
Wavelength Range and Max. Number of Wavelengths	DWDM: 1529.16 nm to 1560.61 nm (Band-C, ITU-T G.694.1), 80 wavelengths CWDM: 1471 nm to 1611 nm (Band S+C+L, ITU-T G.694.2), 8 wavelengths
Service Type	SDH/SONET, PDH, OTN, Ethernet, CPRI, OBSAI, SAN, video
Line Rate	2.5G/10G/100G/200G
Supported Pluggable Optical Modules	SFP/eSFP, XFP, SFP+, QSFP+, TXFP, CFP, CFP2, QSFP28
Equipment-level Protection	Power supply redundancy, fan redundancy
Network-level Protection (OTN)	Optical line protection, intra-board 1+1 protection, client 1+1 protection, ODUk SNCP, SW SNCP and LPT
Synchronization	OTN: physical clock, IEEE 1588v2, ITU-T G.8275.1/G.8273.2 TDM: SDH synchronization clock, synchronous Ethernet clock
Nominal Working Voltage	-48V/-60V DC 110V/220V AC
Operation Environment (Temperature)	Long-term operation: -5°C (23°F) to 55°C (131°F) Short-term operation: -10°C (14°F) to 55°C (131°F)
Operation Environment (Relative Humidity)	Long-term operation: 5% to 85% Short-term operation: 5% to 95%

1800 II Enhanced

1800 V

Dimensions (H x W x D) (mm)	88 x 442 x 220	221 x 442 x 224
Cabinet	<ul style="list-style-type: none"> ETSI 300-mm deep cabinet, such as N63E and N63B 19-inch cabinet 	
Number of Slots for Service Boards	DC-powered chassis: 6	DC-powered chassis: 15 AC-powered chassis: 12
Optical Switching Capability	1-degree to 9-degree ROADM	1-degree to 9-degree ROADM
Electrical Switching Capability	OTN: 200G ODUk Packet: 160G TDM: 50G VC-4 20G VC-3/VC-12	OTN: 700G ODUk Packet: 700G TDM: 280G VC-4 40G VC-3/VC-12
Wavelength Range and Max. Number of Wavelengths	DWDM: 1529.16 nm to 1560.61 nm (Band-C, ITU-T G.694.1), 80 wavelengths CWDM: 1471 nm to 1611 nm (Band S+C+L, ITU-T G.694.2), 8 wavelengths	
Service Type	SDH/SONET, PDH, OTN, Ethernet, CPRI, OBSAI, SAN, video	
Line Rate	2.5G/10G/100G/200G	
Supported Pluggable Optical Modules	SFP/eSFP, XFP, SFP+, QSFP+, TXFP, CFP, CFP2, QSFP28	
Equipment-level Protection	Control, cross-connect, and clock integrated board redundancy Power supply redundancy Fan redundancy	

1800 II Enhanced

1800 V

Network-level Protection (OTN)	Optical line protection, intra-board 1+1 protection, client 1+1 protection, ODUk SNCP, tributary SNCP, and LPT	
Network-level Protection (Packet)	Tunnel APS, PW APS/FPS, LAG, ERPS, LPT, MRPS, LMSP, packet SNCP	Tunnel APS, PW APS/FPS, MC-PW APS, MC-LAG, LPT, LAG, ERPS, MRPS, LMSP, packet SNCP
Network-level Protection (OCS)	SDH protection: SNCP, linear MSP, and ring MSP EoS protection: LAG, DLAG, LCAS, LPT, and STP/RSTP	SDH protection: SNCP, linear MSP, ring MSP, and TPS EoS protection: LAG, DLAG, LCAS, LPT, and STP/RSTP
Synchronization	OTN: OTN clock, Synchronous Ethernet clock, IEEE 1588v2 Packet: Synchronous Ethernet clock, IEEE 1588v2 clock, G.8275.1 TDM: SDH clock, Synchronous Ethernet clock	OTN: physical clock, IEEE 1588v2, ITU-T G.8275.1/G.8273.2 TDM: SDH synchronization clock, synchronous Ethernet clock Packet: physical clock, IEEE 1588v2
TSDN	-	Supported
Nominal Working Voltage	-48V/-60V DC	-48V/-60V DC 110V/220V AC
Operation Environment (Temperature)	Long-term operation: -5°C (23°F) to 50°C (122°F) Short-term operation: -10°C (14°F) to 55°C (131°F)	
Operation Environment (Relative Humidity)	Long-term operation: 5% to 85% Short-term operation: 5% to 95%	

Huawei 3DLive+



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03 OSN 9800



OSN 9800 M24

Dimensions (H x W x D) (mm)	747.2 x 442 x 295
Cabinet	<ul style="list-style-type: none"> ETSI 300-/600-mm deep cabinets, such as A63B 19-inch cabinet
Number of Slots for Service Boards	12 large slots or 24 small slots
Electrical Switching Capability	OTN: 100G x 24 ODUk TDM: 960G VC-4 80G VC-3/VC-12
Wavelength Range and Max. Number of Wavelengths	DWDM: 1529.16 nm-1567.13 nm (extended C-band, ITU-T G.694.1) Fixed grid: 96 wavelengths at a 50 GHz channel spacing
Service Type	SDH/SONET, Ethernet, SAN, OTN, and video
Line Rate	10G/100G/200G
Supported Pluggable Optical Modules	eSFP, SFP+, TSFP+, CFP, CFP2, QSFP28



OSN 9800 M24

Equipment-level Protection	Cross-connect board redundancy, communication control and clock processing unit redundancy
Network-level Protection (OTN)	Client 1+1 protection, ODUk SNCP, tributary SNCP, intra-board 1+1 protection, LPT
Network-level Protection (OCS)	LMSP, Ring MSP, SNCP
Synchronization	Synchronous Ethernet, IEEE 1588v2
Nominal Working Voltage	-48V/-60V DC
Operation Environment (Temperature)	Long-term operation: 0°C (32°F) to 45°C (113°F); Short-term operation: -5°C (23°F) to 50°C (122°F)
Operation Environment (Relative Humidity)	Long-term operation: 5% to 85% Short-term operation: 5% to 90%



OSN 9800 U32 Standard



OSN 9800 U32 Enhanced

Dimensions (H x W x D) (mm)	1900 x 498 x 295	
Cabinet	ETSI 300-/600-mm deep cabinets, such as N63B and N66B	ETSI 300-/600-mm deep cabinets, such as A63B
Number of Slots for Service Boards	32	
Electrical Switching Capability	OTN: 12.8T ODUk Packet: 6.4T TDM: 2.56T VC-4 80G VC-3/VC-12	OTN: 32T ODUk
Wavelength Range and Max. Number of Wavelengths	DWDM: 1529.16 nm to 1567.13 nm (extended C-band, ITU-T G.694.1) Fixed grid: 80/96 wavelengths Flexible grid: configurable	
Service Type	SDH/SONET, Ethernet, SAN, OTN, and video	
Line Rate	10G/40G/100G/200G/400G	100G/200G/400G
Supported Pluggable Optical Modules	eSFP, SFP+, XFP, CFP, CFP2, CXP and QSFP28	

OSN 9800 U32 Standard

OSN 9800 U32 Enhanced

Equipment-level Protection	Power redundancy, fan redundancy, cross-connect board redundancy, communication control and clock processing unit redundancy	
Network-level Protection (OTN)	Client 1+1 protection, intra-board 1+1 protection, LPT, ODUk SNCP, tributary SNCP, and Port-level M: N protection	Client 1+1 protection, ODUk SNCP, tributary SNCP, intra-board 1+1 protection, LPT
Network-level Protection (Packet)	ERPS, LAG, LPT, MC-LAG, LMSP, MC-LMSP, MRPS, PW APS, MC-PW APS, and tunnel APS	-
Network-level Protection (OCS)	LMSP, Ring MSP, SNCP	-
Synchronization	OTN: Physical clock, IEEE 1588v2, and ITU-T G.8275.1 Packet: physical clock, IEEE 1588v2 TDM: SDH synchronization clock, synchronous Ethernet clock	Synchronous Ethernet clock
ASON	Electrical-layer ASON	-
TSDN	Supported	
Submarine Features	Supports application of extended C band in submarine scenarios.	
Nominal Working Voltage	-48V/-60V DC	
Operation Environment (Temperature)	Long-term operation: 5°C (41°F) to 40°C (104°F) Short-term operation: -5°C (23°F) to 45°C (113°F)	
Operation Environment (Relative Humidity)	Long-term operation: 5% to 85% Short-term operation: 5% to 90%	



OSN 9800 UPS

Dimensions (H x W x D) (mm)	397 x 442 x 295
Cabinet	<ul style="list-style-type: none"> ETSI 300-/600-mm deep cabinets, such as N63B and N66B 19-inch cabinet
Number of Slots for Service Boards	DC-powered chassis: 16 AC-powered chassis: 15
Optical Switching Capability	1-degree to 20-degree ROADM
Wavelength Range and Max. Number of Wavelengths	DWDM: 1529.16 nm to 1567.13 nm (extended C-band, ITU-T G.694.1) Fixed grid: 80/96 wavelengths Flexible grid: configurable
Service Type	SDH/SONET, Ethernet, SAN, OTN, and video
Line Rate	2.5G/10G/40G/100G/200G/400G
Supported Pluggable Optical Modules	eSFP, SFP+, XFP, CFP, CFP2 and QSFP28
Equipment-level Protection	Power supply redundancy, fan redundancy, system control and communication board redundancy



OSN 9800 UPS

Network-level Protection (OTN)	Optical line protection, intra-board 1+1 protection, client1+1 protection, and LPT
Synchronization	OTN: physical clock, IEEE 1588v2, and ITU-T G.8275.1 Packet: physical clock, IEEE 1588v2 TDM: SDH synchronization clock, synchronous Ethernet clock
ASON	Optical-layer ASON
TSDN	Supported
Submarine Features	Supports application of extended C band in submarine scenarios
Nominal Working Voltage	-48V/-60V DC 110V/220V AC
Operation Environment (Temperature)	Long-term operation: 5°C (41°F) to 45°C (113°F) Short-term operation: -5°C (23°F) to 55°C (131°F)
Operation Environment (Relative Humidity)	Long-term operation: 5% to 85% Short-term operation: 5% to 95%