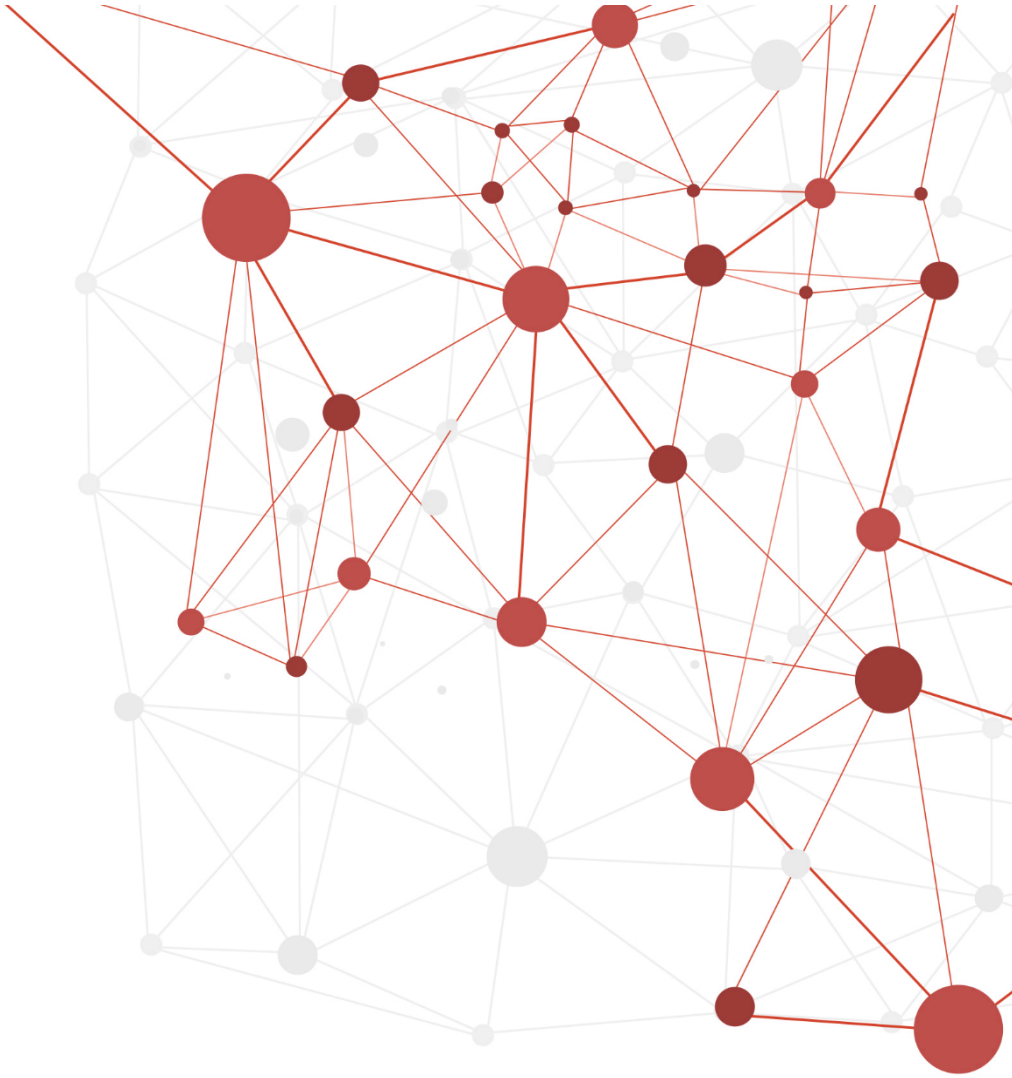

Huawei OptiX OSN 6800 and Boards Datasheet

CONTENT

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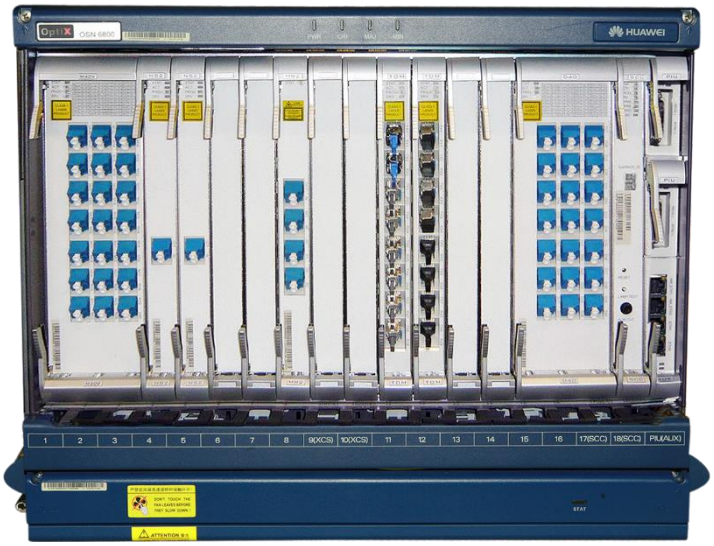
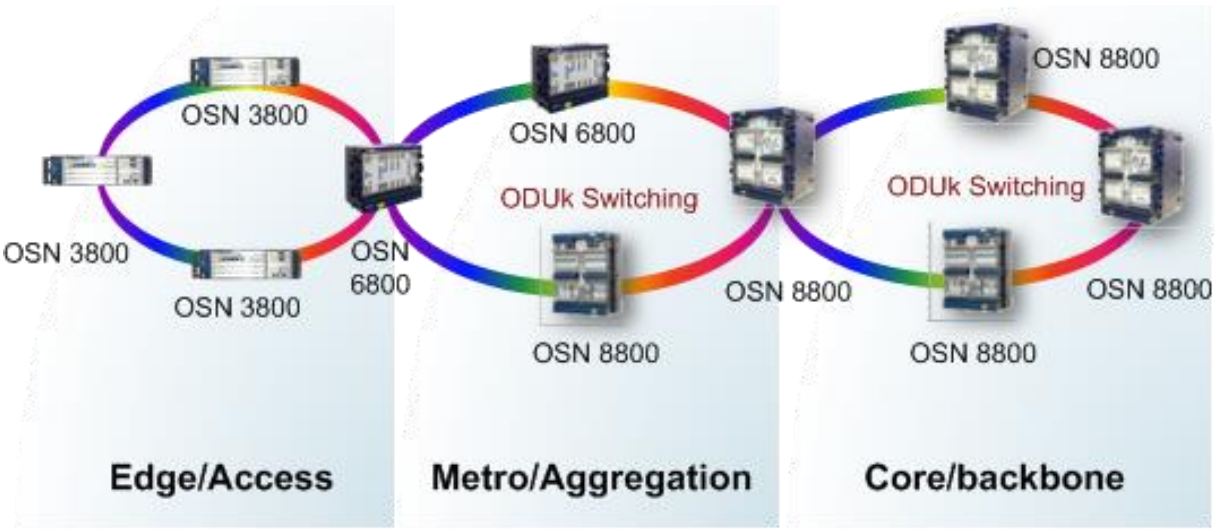
Overview

Huawei OptiX OSN 6800 Intelligent Optical Transport Platform (OptiX OSN 6800 for short) is referred to as Huawei next generation intelligent optical transport platform. The OptiX OSN 6800 is for area backbones, local networks, metropolitan convergence layers and metropolitan core layers. It may also work with other WDM, SDH/SONET equipment to offer a complete Metro WDM solution. The OptiX OSN 6800 supports 40 Gbit/s and 100 Gbit/s line rates and a 360G bit/s cross-connect capacity. It features power saving, and high reliability and maintainability.



OptiX OSN 6800



Position of the OptiX OSN 3800 / 6800 in the network hierarchy

Highlights of OptiX OSN 6800:

The OptiX OSN 6800 supports 40 Gbit/s, 100 Gbit/s and 200 Gbit/s line rates and a 360G bit/s cross-connect capacity. It features power saving, and high reliability and maintainability.

★ **Highest Cross-Connect Capacity with Flexible Large-Capacity Service Grooming**

- Features high cross-connect capacity. A single subrack supports a maximum of 360G bit/s cross-connect capacity, implementing large-capacity service grooming. Only one subrack is required for the large-capacity service grooming and therefore lowers power consumption and reduces the floor space.

- Supports multi-granularity OTN cross-connection, that is, ODUk cross-connection, where k can be 1, 2, or 2e.

★ **Huge Bandwidth Provisioning with Flexible High-Density Architecture**

- Supports comprehensive soft decision (SDFEC) and hard decision (HFEC) schemes to address various long-haul transmission requirements.

- Supports hybrid transmission of 10 Gbit/s, 40 Gbit/s, and 100 Gbit/s services, protecting carriers' investments.

- Supports flexible ROADM to provide the optical-layer platform for a beyond 100G system in future.

★ **Tier 1 Reliability and Mass Data Transmission with Optimal Architecture**

- Provides multiple network-level protection schemes and intelligent network management based on automatically switched optical network (ASON)/generalized multiprotocol label switching (GMPLS) technologies to protect all fibers and services.

- Provides protection for power supply devices, fans, communication control boards, and the cross-connection resource pool.

★ **Low Power Consumption and High Maintainability, Providing the Minimizing OPEX**

- Provides environment-friendly OTN solutions using various low-carbon technologies.

- Supports overall network performance monitoring using the user-friendly optical doctor (OD) system embedded in the U2000.

Specification

Table 1. OptiX OSN 6800 Specification.

Specifications	**OptiX OSN 6800**
Dimensions (mm)	497 (W) x 295 (D) x 400 (H)
Number of slots for service boards	17

Switch	**Optical**	1 to 20-degree ROADM
	Electrical	180G GE 360G 10GE/ODUk(k=1, 2, 2e)
Wavelength (max)		DWDM: 80-ch, CWDM: 8-ch
Wavelength range		DWDM: 1529.16 nm to 1560.61 nm (Band-C, ITU-T G.694.1) CWDM: 1471 nm to 1611 nm (Band S+C+L, ITU-T G.694.2)
Max. rate per channel		100 Gbit/s (OTU4)
Service types supported		SDH, SONET, Ethernet, SAN, OTN, Video
Line rate		2.5 Gbit/s, 10 Gbit/s, 40 Gbit/s, 100 Gbit/s
Supported pluggable optical modules		eSFP, SFP+, XFP, CFP
Max. capacity per PID group		120 Gbit/s
Topology		Point-to-point, chain, star, ring, ring-with-chain, tangent ring, intersecting ring, mesh
Redundancy and protection	**Network level protection (OTN)**	Optical line protection, intra-board 1+1 protection, client 1+1 protection, ODUk SNCP, tributary SNCP, SW SNCP, MS SNCP, ODUk SPRing protection, OWSP, board-Level protection
	Network level protection (Ethernet)	DBPS, DLAG, ERPS, LAG, LPT, MSTP, STP and RSTP, VLAN SNCP
	Equipment level protection	Power redundancy, fan redundancy, cross-connect board redundancy, system control and communication board redundancy

Optical power management	ALS, AGC, ALC, APE, IPA, OPA
Synchronization	Synchronous Ethernet clock IEEE 1588v2 2 Mbit/s or 2 MHz (with the SSM function), ITU-T G.703-compliant external clock source External time source (1PPS+TOD)
ASON	Optical-Layer ASON
Nominal working voltage	-48 V DC/-60 V DC
Maximum subrack power consumption	1350 W
Operation environment	Subrack 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) Relative humidity: Long-term operation: 5% to 85% Short-term operation: 5% to 95%
Mean time to repair (MTTR)	4 hours
Mean time between failures (MTBF)	51.64 years

Hardware Description

Structure

Subracks are the basic working units of the OptiX OSN 6800. The subrack of the OptiX OSN 6800 has an independent power supply.

Appearance of thr OptiX OSN 6800 chassis

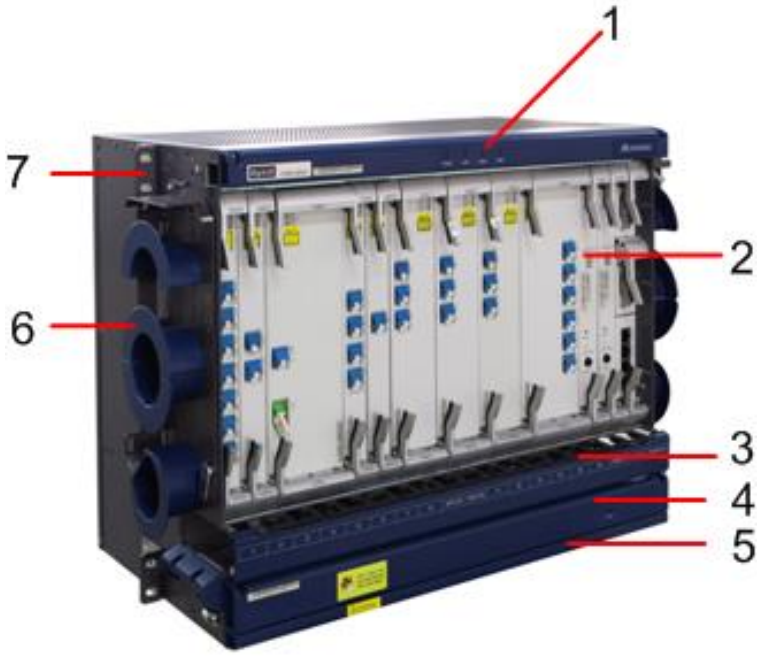


Table 2. Note

1. Indicator and interface area	2. Board area	3. Fiber cabling area
4. Fan tray assembly	5. Air filter	6. Fiber spool
7. Mounting ear	-	-

NOTE:

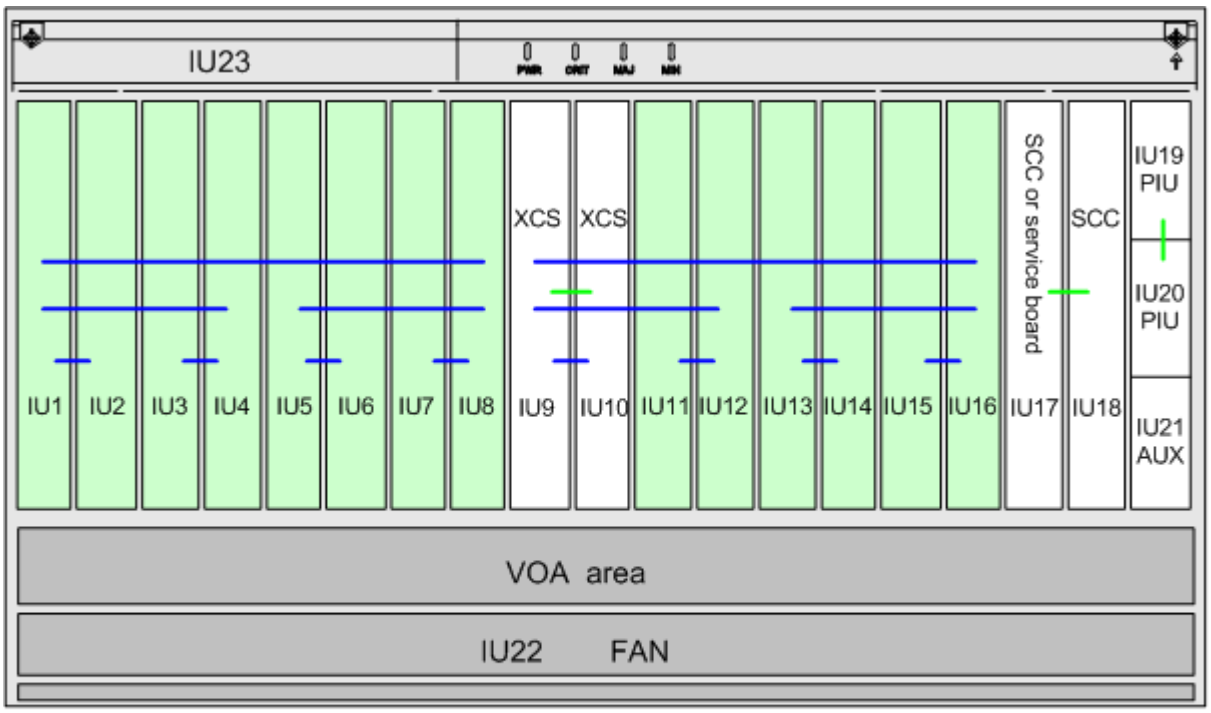
The interface area is behind the indicator panel in the upper part of the subrack. Remove the indicator panel before you connect cables.

- Indicators: indicate the running status and alarm status of the subrack.
- Board area: All service boards are installed in this area. 21 slots are available.
- Fiber cabling area: Fiber jumpers from the ports on the front panel of each board are routed to the fiber cabling area before being routed on a side of the open rack. The mechanical VOA is also installed in this area.

- Fan tray assembly: Fan tray assembly contains ten fans that provide ventilation and heat dissipation for the subrack.
- Air filter: The air filter protects the subrack from dust in the air and requires periodic cleaning.
- Fiber spool: Rotable fiber spools are on two sides of the subrack. Extra fibers are coiled in the fiber spool on the open rack side before being routed to another subrack.
- Mounting ears: The mounting ears attach the subrack in the cabinet.
- Interface area: The interface area provides functional interfaces, such as management interface, inter-subrack communication interface, alarm output and cascading interface, alarm input and output interface. It is behind the subrack indicator panel.

Slot Description

The board area of the subrack has 21 slots, labeled IU1 to IU21 from left to right.



For one-slot boards, the paired slots must be configured as follows: slots IU1 and IU2, slots IU3 and IU4, and so on.
For two-slot boards, the paired slots must be configured as follows: slots IU1 to IU2 and slots IU3 to IU4, slots IU5 to IU6 and slots IU7 to IU8, and so on.
For four-slot boards, the paired slots must be configured as follows: slots IU1 to IU4 and slots IU5 to IU8, slots IU9 to IU12 and slots IU13 to IU16.

Slots of the subrack

NOTE:

- : service boards.

- IU15 and IU16 are also available for the STG.

- When the OSN 6800 subrack needs to use the IEEE 1588v2 or physical clock synchronization function, STG board must be configured. Two STG boards need to be configured. The two STG boards work in active/standby mode.

- Pair slots refer to a pair of slots whose resident boards' overhead can be processed by the buses on the backplanes. OSN 6800 supports pair slots.

  · At a site where OSC signals pass through, two OSC boards must be configured in paired slots.

  · When line boards or OTU boards function as regeneration boards, ESC signals need to pass through the boards. In this scenario, the two line boards or OTU boards must be configured in paired slots.

  · Paired slots among slots IU1 to IU8 and IU11 toIU16 support distributed service grooming.

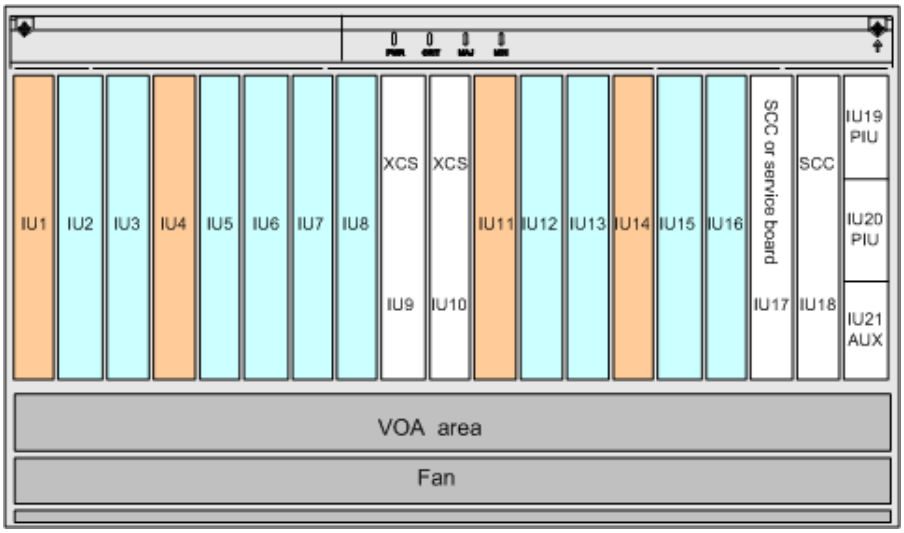
NOTE:

The IEEE 1588v2 function is not supported by all services boards or ST2/AST2 boards in slots 15 and 16 in an OptiX OSN 6800 subrack.

Cross-Connect Capacities

Integrated Grooming

When using the XCS board, an OptiX OSN 6800 subrack can cross-connect ODU1, ODU2, ODU2e, 10GE, and GE services between any two slots among slots IU1-IU8 and slots IU11-IU16. It provides the cross-connect capacity for each slot.



Cross-connect capacities of slots

Table 3. Cross-connect capacity of OptiX OSN 6800 subrack

Cross-Connect Board	Slot	Maximum Cross-Connect Capacity of Each Slot		Maximum Cross-Connect Capacity of Subrack
		ODU1/ODU2/ODU2e/10GE	GE	
TN12XCS		40 Gbit/s	20 Gbit/s	180 Gbit/s GE 360 Gbit/s ODU1/ODU2/ODU2e/10GE Supports hybrid transmission of the above-mentioned services with the maximum cross-connect capacity of 360 Gbit/s.
		20 Gbit/s	10 Gbit/s	
		Not supported	Not supported	
TN11XCS		20 Gbit/s	10 Gbit/s	140 Gbit/s GE 280 Gbit/s ODU1/ODU2/ODU2e/10GE Supports hybrid transmission of the above-mentioned services with the maximum cross-connect capacity of 280 Gbit/s.
		Not supported	Not supported	

Distributed Grooming

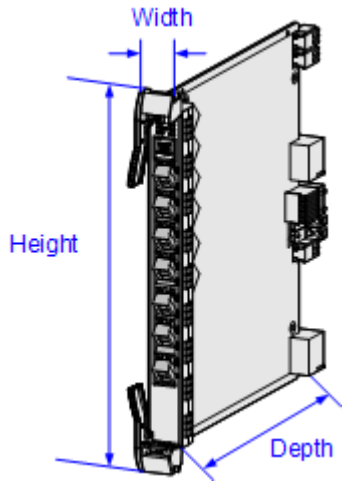
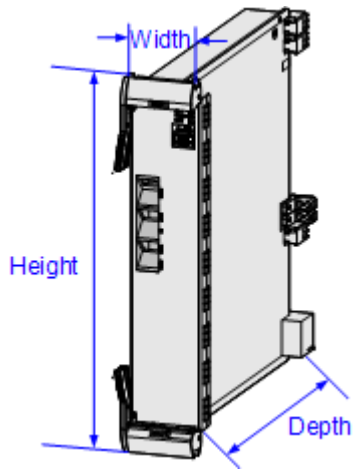
An OptiX OSN 6800 subrack provides pairs of slots. GE/Any/ODU1/OTU1 services can be cross-connected between paired slots. No XCS board is required when paired slots are used to cross-connect electrical services. The paired slots IU9 and IU10 do not support distributed service grooming.

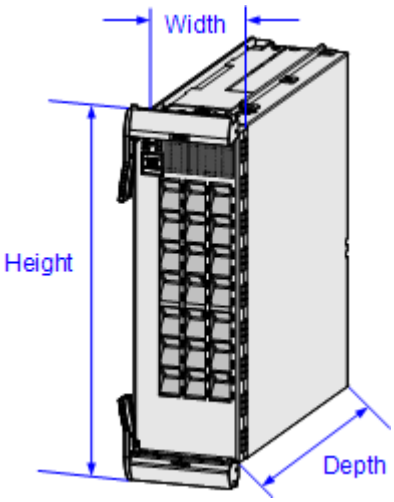
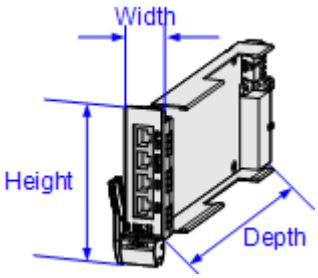
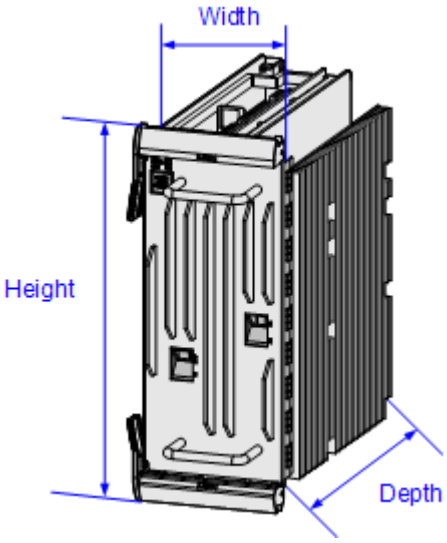
Mechanical Specifications

Table 4. The mechanical specifications of the OptiX OSN 6800 subrack.

Item	Specification
Dimensions	497 mm (W) x 295 mm (D) x 400 mm (H)
Weight (empty subracka)	13 kg
a: An empty subrack means no boards are installed in the board area, and no fan tray assembly or air filter is installed.	

Table 5. Appearance and Dimensions of Boards

Board Appearance	Board Name	Number of Slots Per Board	Height (mm)	Width (mm)	Depth (mm)
	TN11L4G	1	264.6	25.4	220.0
	TN11OAU1	2	264.6	50.8	220.0

Board Appearance	Board Name	Number of Slots Per Board	Height (mm)	Width (mm)	Depth (mm)
	TN11M40	3	264.6	76.2	220.0
	TN11AUX	1	107.6	25.4	220.0
	TN11LSXL	4	264.6	101.6	220.0

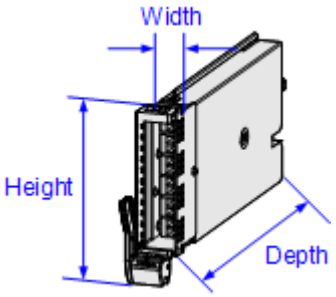
Board Appearance	Board Name	Number of Slots Per Board	Height (mm)	Width (mm)	Depth (mm)
	TN21MR4	1	118.9	25.4	220.0

Table 6. OptiX OSN 6800 Board Category

Board Category	Board Name	Board Description
Optical transponder unit	TN11ECOM	Enhanced communication interface unit
	TN11L4G	Line wavelength conversion unit with 4 x Gigabit Ethernet line capacity
	TN11LDGS	2 x Gigabit Ethernet unit, single fed and single receiving
	TN11LDGD	2 x Gigabit Ethernet unit, dual fed and selective receiving
	TN12LDM	2-channel multi-rate (100Mbit/s-2.5Gbit/s) wavelength conversion board
	TN11LDMD	2-channel multi-rate (100Mbit/s-2.5Gbit/s) wavelength conversion board, dual fed and selective receiving
	TN11LDMS	2-channel multi-rate (100Mbit/s-2.5Gbit/s) wavelength conversion board, single fed and single receiving
	TN12LDX	2 x 10 Gbit/s wavelength conversion unit

	TN11LEM24	22×GE + 2×10GE and 2×OTU2 ethernet switch board
	TN11LEX4	4×10GE and 2×OTU2 ethernet switch board
	TN11LOA	8 x Any-rate MUX OTU2 Wavelength Conversion Board
	TN11LOG	8 x Gigabit Ethernet unit
	TN12LOG	
	TN11LOM	8-port multi-service multiplexing & optical wavelength conversion board
	TN12LOM	
	TN11LQG	4 x GE-multiplex-optical wavelength conversion board
	TN13LQM	4-channel multi-rate (100Mbit/s-2.5Gbit/s) wavelength conversion unit
	TN11LQMD	4-channel multi-rate (100Mbit/s-2.5Gbit/s) wavelength conversion unit, dual fed and selective receiving
	TN12LQMD	
	TN11LQMS	4-channel multi-rate (100Mbit/s-2.5Gbit/s) wavelength conversion unit, single fed and single receiving
	TN12LQMS	
	TN12LSC	100 Gbit/s wavelength conversion board
	TN17LSC	
	TN17LSCM	100 Gbit/s wavelength conversion board
	TN11LSQ	40 Gbit/s wavelength conversion board

	TN11LSX	10 Gbit/s wavelength conversion unit
	TN12LSX	
	TN13LSX	
	TN14LSX	
	TN11LSXL	40 Gbit/s wavelength conversion board
	TN12LSXL	
	TN15LSXL	
	TN11LSXLR	40 Gbit/s wavelength conversion relay unit
	TN12LSXLR	
	TN11LSXR	10 Gbit/s wavelength conversion relay unit
	TN11LTX	10-Port 10Gbit/s Service multiplexing & optical wavelength conversion board
	TN12LTX	
	TN17LTX	
	TN11LWX2	arbitrary rate (16Mbit/s-2.7Gbit/s) dual-wavelength conversion board
	TN11LWXD	arbitrary rate (16Mbit/s-2.7Gbit/s) wavelength conversion board (double transmit)
	TN11LWXS	arbitrary rate (16Mbit/s-2.7Gbit/s) wavelength conversion board (single transmit)
	TN12LWXS	

	TN11TMX	4 channels STM-16/OC-48/OTU1 asynchronism mux OTU-2 wavelength conversion board
	TN12TMX	
Universal Line Service Processing Board	TN54HSNS4	1 x 100G Universal Line Service Processing Board
OTN Tributary unit	TN11TBE	10 Gigabit ethernet tributary board
	TN11TDG	2 x GE tributary service processing board
	TN11TDX	2 x 10G tributary service processing board
	TN12TDX	
	TN52TDX	
	TN53TDX	
	TN52TOG	8 x GE tributary service processing board
	TN11TOM	8 x multi-rate ports service processing board
	TN52TOM	
	TN11TQM	4 x multi-rate tributary service processing board
	TN12TQM	
	TN11TQS	4 x STM-16/OC-48/OTU1 tributary service processing board
	TN11TQX	4 x 10 Gbit/s tributary service processing board
	TN52TQX	

	TN55TQX	
	TN11TSXL	40 Gbit/s tributary service processing board
OTN Line unit	TN11ND2	2 x 10G line service processing board
	TN12ND2	
	TN52ND2	
	TN53ND2	
	TN51NQ2	4 x 10G Line Service Processing Board
	TN52NQ2	
	TN53NQ2	
	TN11NS2	10G Line Service Processing Board
	TN12NS2	
	TN52NS2	
	TN53NS2	
	TN11NS3	40G line service processing board NOTE: The TN54NS3/TN55NS3 board for the OptiX OSN 6800 only supports relay mode.
	TN52NS3	
	TN54NS3	
	TN55NS3	
PID unit	TN11BMD4	PID Interleaver Board (C-band), 200/100 GHz

	TN11BMD8	PID Interleaver Board (C_Band), 200/50 GHz
	TN12ELQX	4×Electrical OTU2 with 4×10G Tributary Board
	TN12PTQX	12× OTU2 PID board with 4×10G Tributary
Submarine Board	TN96OBU1	C-band Optical Booster Unit
	TN96WSD9	9-port flexible wavelength selective demultiplexing board(Extended C-band)
	TN96WSM9	9-port wavelength selective multiplexing board(Extended C-band)
	TN97OPM8	8-channel optical power monitor board(Extended C-band)
	TN97MD2	2-port Multiplexing and Demultiplexing Board (Extended C Band)
	TN97M48V	48-channel multiplexing board with VOA(Extended C-band)
	TN97D48	48-channel demultiplexing board(Extended C-band)
	TN97FIU	Fiber interface board(Extended C-band)
	TN97ITL	Interleaver board(Extended C-band)
	TN97TD20	20-ports Tunable DeMultiplexing Board(Extended C_band)
	TN97TM20	20-ports Tunable Multiplexing Board(Extended C_band)
	TN97ASE	Extended C-band Amplified spontaneous emission board with pump protection
	TN51HBA	Extended C-band high-power booster amplifier board

	TN97OAU2	Extended C-band optical booster unit with pump protection
	TN97OBU2	Extended C-band optical booster unit with pump protection
	TN51ROP	Extended C-band remote optical pump processing board
	TN51RPC	Extended C-band forward raman processing board
	TN97RPC	Extended C band backward Raman processing board. For the details of the board
	TN97ERPC	Extended C-band enhanced Raman processing board
Cross-connect unit and system and communication unit	TN11XCS	centralized cross connect board
	TN12XCS	
	TN11SCC	system control and communication unit
	TN51SCC	
	TN52SCC	
	TN11AUX	system auxiliary interface board
	TN12AUX	
Optical multiplexer and demultiplexer unit	TN11M40	40-channel multiplexing unit
	TN12M40	
	TN11D40	40-channel demultiplexing unit
	TN12D40	
	TN97D48	48-channel demultiplexing board

	TN11M40V	40-channel multiplexing unit with VOA
	TN12M40V	
	TN97M48V	48-channel multiplexing board with VOA
	TN11D40V	40-channel demultiplexing unit with VOA
	TN11FIU TN12FIU TN13FIU TN14FIU TN15FIU TN16FIU	fiber interface unit
	TN11ITL06	interleaver board(extended C-band)
	TN11ITL01	interleaver board
	TN11ITL04	
	TN12ITL	
	TN11SFIU	fiber interface unit for sync timing
Fixed optical add and drop multiplexing unit	TN11CMR2	CWDM 2-channel optical add/drop multiplexing unit
	TN11CMR4	CWDM 4-channel optical add/drop multiplexing unit
	TN11DMR1	CWDM 1-channel bidirectional optical add/drop multiplexing board
	TN11MR2	2-channel optical add/drop multiplexing unit

	TN11MR4	4-channel optical add/drop multiplexing unit
	TN11MR8	8-channel optical add/drop multiplexing unit
	TN11MR8V TN12MR8V	8-channel optical add/drop multiplexing unit with VOA
	TN11SBM2	2-channel CWDM single-fiber bidirectional add/drop board
Reconfigurable optical add and drop multiplexing unit	TN11RDU9	9-port ROADM demultiplexing board
	TN12RDU9	9-port ROADM demultiplexing board(Extended C-band)
	TN11RMU9	9-port ROADM multiplexing board
	TN11ROAM	reconfigurable optical adding board
	TN12TD20	20-ports Tunable Demultiplexing Board
	TN97TD20	20-ports Tunable DeMultiplexing Board(extended C_band)
	TN11TM20 TN13TM20 TN15TM20	20-ports Wavelength Tunable Multiplexing Board
	TN97TM20	20-ports flexible and tunable wavelength multiplexing board (Extended C-band)
	TN11WSD9	9-port wavelength selective switching demultiplexing board
	TN12WSD9	
	TN13WSD9	
	TN16WSD9	

	TN17WSD9	
	TN96WSD9	9-ports flexible wavelength selective demultiplexing board (Extended C-band)
	TN11WSM9	9-port wavelength selective switching multiplexing board
	TN12WSM9	
	TN13WSM9	
	TN16WSM9 TN17WSM9	
	TN96WSM9	9-ports flexible wavelength selective multiplexing board(Extended C-band)
	TN11WSMD2	2-port wavelength selective multiplexer and demultiplexer board
	TN11WSMD4	4-port wavelength selective multiplexer and demultiplexer board
	TN12WSMD4	
	TN13WSMD4 TN17WSMD4	
	TN11WSMD9	9-port wavelength selective multiplexing and demultiplexing board
	TN12WSMD9	
	TN15WSMD9	
	TN52WSMD9	

	TN15DWSS20	Dual 20-Port Wavelength Selective Switching Board
	TN51DWSS20 TN52DWSS20	Dual 20-ports wavelength selective multiplexing and demultiplexing board(Extended C-band)
	TN51MCS0816	Dual Multicast Switching Board(Extended C-band)
Optical amplifier unit	TN11CRPC	Case-shape Raman pump amplifier unit for C-band
	TN11DAS1	Optical amplifier unit
	TN11HBA	High-power booster amplifier board
	TN51HBA	Extended C-band high-power booster amplifier board
	TN11OAU1	Optical amplifier unit
	TN12OAU1	
	TN13OAU1	
	TN11OBU1 TN12OBU1 TN13OBU1	Optical booster unit
	TN11OBU2 TN12OBU2 TN13OBU2 TN14OBU2	Optical booster unit
	TN11RAU1	Backward raman and erbium doped fiber hybrid optical amplifier unit
	TN12RAU1	

	TN11RAU2	
	TN12RAU2	
	TN51ROP	Extended C-band Remote optical pump processing Board
	TN51RPC	Extended C-band forward raman processing board
	TN11SRAU	Super C-band backward raman and erbium doped fiber hybrid optical amplifier unit
	TN52SRAPXF	Extended C-band Super Backward Raman and Pluggable Erbium Doped Fiber Amplifier Hybrid Unit
	TN52DAP	Extended C-band optical amplifier base board with 2 pluggable ports
	TN52DAPXF	Extended C-band optical amplifier board with 2 pluggable ports (XFIU embedded)
Optical supervisory channel unit	TN11HSC1	high power unidirectional optical supervisory channel board
	TN12HSC1	
	TN11SC1	unidirectional optical supervisory channel unit
	TN12SC1	
	TN11SC2	bidirectional optical supervisory channel unit
	TN12SC2	
	TN11ST2 TN12ST2 TN13ST2	bidirectional optical supervisory channel and timing transmission unit

	TN11AST2	Bidirectional optical supervisory channel and timing transmission unit (with Advanced OTDR)
	TN51LMU	Line Monitor Unit
Optical protection unit	TN11DCP	2-channel optical path protection unit
	TN12DCP	
	TN13DCP	
	TN11OLP	optical line protection unit
	TN12OLP	
	TN13OLP	
	TN11OLSP	Optical line switch protection board
	TN11OLSPA/TN11OLSPB	Optical line switch protection board that supports synchronous information transmission
	TN11QCP	4-channel optical path protection unit
	TN11SCS	sync optical channel separator unit
Spectrum analyzer unit	TN11MCA4	4-channel spectrum analyzer unit
	TN11MCA8	8-channel spectrum analyzer unit
	TN11OPM8	8-channel optical power monitoring board
	TN12OPM8	
	TN15OPM8	

	TN97OPM8	8-channel flexible bandwidth optical power monitor board (Extended C-band)
	TN11WMU	wavelength monitoring unit
Variable optical attenuator unit	TN11VA1 TN12VA1 TN13VA1	1-channel variable optical attenuator unit
	TN11VA4 TN12VA4 TN13VA4	4-channel variable optical attenuator unit
Dispersion equalizing unit	TN11DCU	dispersion compensation board
	TN11TDC	single-wavelength tunable-dispersion compensation board
Clock unit	TN11STG	centralized clock board
	TN12STG	
	TN13STG	
ROPA subsystem unita	TN11GFU	gain flatness unit
	TN11RGU	ROPA gain unit
	TN11ROP	ROPA pumping unit
	TN51ROP	Extended C-band remote optical pump processing board
Interface area unit	TN11EFI	EMI filter interface board
	TN11PIU	power interface unit

Fan	TN11FAN	Fan
a: For the details of the ROPA subsystem unit, refer to ROPA Subsystem User Guide.		

Basic Ordering Information

Table 7. Ordering information of Huawei OptiX OSN 6800 chassis.

Model	Description
Huawei Optix OSN 6800	Huawei OptiX OSN 6800 supports 40 Gbit/s, 100 Gbit/s and 200 Gbit/s line rates and a 360G bit/s cross-connect capacity, provides power saving, and high reliability and maintainability

Where to Buy

Want to buy this series of products? please contact:

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Huawei OptiX OSN 3800	Huawei OptiX OSN 580

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Sources

https://support.huawei.com/enterprise/en/transmission-network/optix-osn-6800-pid-16167