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Overview

The Huawei OptiX OSN 500 is a new-generation optical transmission equipment used at the access layer for leased line and mobile BTS access.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	Huawei OptiX OSN 500
Dimensions	44mm (H) x 442mm (W) x 220mm (D)
Switch capacity	Packet: 7.2 Gbit/s and TDM: 21.25 Gbit/s (higher order), 5 Gbit/s (lower order)
Service slots	3 slots
Power Supply	48V DC/ -60V DC, 220V AC/110V AC

Product Details

Huawei OptiX OSN 500 provides these features:

• **MPLS-TP for Highly Efficient and Highly Available Packet Transport**

- Guaranteed Performance from end-to-end committed bandwidth mechanism.
- 99.999% availability: 50ms recovery for both linear and ring applications.
- SDH-like OAM mechanism for quick fault detection, troubleshooting and end-to-end performance monitoring.

• **Flexible installation**

- 1U high box
- Fitting 19/23' rack, outside cabinet, wall, desk and pole mounting.
- AC or DC power supply

• **TP-Assist for Easy O&M**

- MPLS-TP based O&M solution 'TP-Assist' providing efficient planning, fast deployment and simple maintenance, making the large-scale packet network easily manageable
- Traffic based crystal clear O&M is supported with visual networklevel view, graphical format to display end-to-end service configuration, performance and status.
- Better maintenance experience even than SDH: visualized end-toend bandwidth management, intelligently locating 92% failure,analyzable and predicable network management

• **Industrial Certifications Ensure Reliable Operation**

- Compliant with EN 50121-4, IEC 61850-3, IEC 61000-6-5, IEEE 1613

Compare to Similar Items

Table 2 shows the comparison.

Product Code	Huawei OptiX OSN 500	Huawei OptiX OSN 550	Huawei OptiX OSN 580	Huawei OptiX OSN 3500	Huawei OptiX OSN 7500	Huawei OptiX OSN 7500 II
Dimensions	44mm (H) x 442mm (W) x 220mm (D)	88mm (H) x 442mm (W) x 220mm (D)	221 mm (H) x 442 mm (W) x 224 mm (D)	722 mm (H) x 497 mm (W) x 295 mm (D)	757 mm (H) x 497 mm (W) x 295 mm (D)	800mm (H) x 496mm (W) x 295mm (D)
Switch capacity	Packet: 7.2 Gbit/s and TDM: 21.25 Gbit/s (higher order), 5 Gbit/s (lower order)	Packet: 64 Gbit/s ,TDM: 20 Gbit/s (higher order)	Packet: 560 Gbit/s, TDM: 280 Gbit/s (higher order) Packet: 280 Gbit/s, TDM: 280 Gbit/s (higher order)	Packet: 160 Gbit/s and TDM: 200 Gbit/s (higher order), 20 Gbit/s (lower order)	Packet: 160 Gbit/s and TDM: 360 Gbit/s (higher order), 80 Gbit/s (lower order)	Packet: 320 Gbit/s and TDM: 360 Gbit/s (higher order), 40 Gbit/s (lower order), OTN: 560Gbit/s

Service slots	3 slots	8 slots	15 slots	15 slots for processing boards and 16 slots for interface boards	22 slots for processing boards and 8 slots for interface boards	32 slots, 16 slots for interface boards and 16 slots for processing boards with same bandwidth per slot
Power Supply	48V DC/ -60V DC, 220V AC/110V AC	-48 V DC/-60 V DC 220 V AC/110 V AC	-48 V DC/-60 V DC 220 V AC/110 V AC	-48V DC/ -60V DC; 110/220V AC (External module)	-48V DC/-60V DC; 110V AC/220V AC (External module)	-48V DC/-60V DC

View Overview of Huawei Transmission Network Hot Series

[Huawei OptiX OSN 1800](#)

[Huawei OptiX OSN 500/550/580](#)

[Huawei OptiX OSN 8800/6800/3800](#)

[Huawei OptiX OSN 9800](#)

[Huawei OptiX OSN 7500/7500 II](#)

Get More Information

Do you have any question about the Huawei OptiX OSN 500?

Contact us now via [Live Chat](#) or sales@router-switch.com.

Specification

Huawei OptiX OSN 500 Specification		
Dimensions		44mm (H) x 442mm (W) x 220mm (D)
Switch capacity		Packet: 7.2 Gbit/s and TDM: 21.25 Gbit/s (higher order), 5 Gbit/s (lower order)
Service slots		3 slots
Supported interfaces	Ethernet interface	FE/GE
	SDH interface	STM-1/4
	PDH interface	E1/E3; T1/T3
	CES interface	ATM/IMA E1, ch STM-1
Networking Mode		Supporting pure packet or SDH networking Supporting single-fiber bidirectional transmission
Power Supply		P48V DC/ -60V DC, 220V AC/110V AC
Operation Environment	Temperature	Long term: -5°C ~ 45°C Short term: -5°C ~ 55°C
	Relative Humidity	Long term: 5% ~ 85% Short term: 5% ~ 95%
Ethernet Feature		E-Line, E-LAN and QinQ MPLS-TP based VPWS and VPLS MS-PW ETH PWE3 IGMP Snooping v2 Blacklist, Broadcast packet suppression, ACL

QoS		<p>Hierarchical QoS scheduling and traffic shaping</p> <p>DiffServ mode based on traffic classification</p> <p>Simple traffic classification, complex traffic classification, per hop behavior (PHB), and ACL</p> <p>Committed access rate (CAR)</p> <p>PQ scheduling priority, weighted round robin (WRR) and PQ+WRR queuing</p> <p>Tail drop and weighted random early detection (WRED)</p> <p>Shaping based on port scheduling priority</p>
OAM	MPLS-TP OAM	<p>LSP/PW OAM:</p> <p>CC, LB, LT</p> <p>AIS, RDI</p> <p>LM, DM</p> <p>LCK, TST</p> <p>CSF</p>
	Ethernet OAM	<p>ETH-CC, ETH-Loopback, ETH-Link Trace, Remote Loopback, Remote Fault Detection, RMON(RFC 2819)</p>
Protection	Equipment-level Protection	<p>power 1+1 backup</p>
	MPLS-TP based networklevel Protection	<p>LSP/PW Linear protection, Ring protection</p> <p>Anti multifailure protection based on MS-PW</p> <p>LAG, MC-LAG, Dual-homing protection, LPT</p> <p>ERPS, MSTP</p>
	SDH based network-level Protection	<p>2 fiber MS-SP Ring</p> <p>1+1/1:n (n<=5) Linear MSP,SNCP</p> <p>LAG, LPT, LCAS</p>
Synchronization		<p>Both Ethernet and SDH networks supporting clock synchronization</p> <p>Supporting G.813, Synchronous Ethernet and IEEE 1588v2 synchronization</p> <p>Adaptive clock recovery (ACR)</p> <p>One external clock inputs/outputs (2 MHz or 2 Mbit/s)</p> <p>Two external time signals(1pps+TOD)</p>

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