



OptiX OSN 9800 is Huawei's next generation core packet-optical OTN platform for 100G and beyond. It integrates Huawei advanced Packet, OTN, Optics and Transport SDN Technologies, and offers a class-leading high-density architecture with ultra-low power consumption per bit.



OSN 9800 U16



OSN 9800 U32



OSN 9800 U64

### Packet Optical Convergence

Universal switching, universal transport to maximize network efficiency

### 400G/1T/2T Oriented Platform

One platform progresses from 100G to 400G/1T/2T for the highest scalability

### T-SDN Based Architecture

Open and programmable to stimulate rapid business innovation

Specifications		OptiX OSN 9800 U16	OptiX OSN 9800 U32	OptiX OSN 9800 U64
Dimensions (HxWxD)		847x442x295mm	1900x498x295mm	2200x600x600mm(with cabinet)
Number of Service Slots		14	32	64
Switching Capability	Optical	Up to 20-degree C-D-C-G ROADM		
	Electrical	5.6Tbit/s universal switching	6.4 /12.8Tbit/s universal switching	12.8/25.6Tbit/s universal switching
Number of Ports	Max OTU4 Ports	28/56	64/128	128/256
	Max 100GE Ports	28/56	64/128	128/256
	Max OTU3 Ports	28	64	128
	Max 40GE Ports	28	64	128
	Max OTU2 Ports	280	640	1280
	Max 10G Ports	280	640	1280
	Max GE/2.5G Ports	420	960	1920
	Max OTUC2 Ports	14	32	64
	Max OTUC4 Ports	7/14	16/32	32/64
Channel Spacing		50/100GHz fixed grid for 40/80-ch Flex-grid		
Wavelength Range		DWDM: 1529.16 nm to 1560.61 nm (C Band, ITU-T G.694.1)		
Rate per Channel (Max.)		100G, 200G, 400G, 1T, 2T		
Service Types Supported		SDH, SONET, Ethernet, SAN, OTN, video		
Topology		Point-to-point, chain, star, ring, ring-with-chain, tangent ring, intersecting ring and mesh		
Redundancy and Protection	Equipment	1+1 power input protection, 1+1 fan protection, M:N switch board protection, 1+1 controller protection		
	Network	OTN: Optical line protection, client 1+1 protection, ODUK SNCP, tributary SNCP, intra-board 1+1 protection,LPT, ASON/GMPLS PKT: PW APS, Tunnel APS, LAG		
Optical Power Management		ALS, AGC, ALC, APE, IPA		
Synchronization		IEEE 1588v2, Sync-E		
		2Mbit/s or 2MHz (with the SSM function), ITU-T G.703-compliant external clock source		
		External clock source (1PPS+TOD)		
ASON/GMPLS		Automatic network discovery		
		ODUK/λ level protection and restoration		
		5-Level SLA (Service Level Agreement) provisioning		
		End-to-end service configuration		
		Shared Risk Link Group (SRLG)		
T-SDN		Automation, IP+Optical , BOD		
Installation Rack		ETSI/19 inch rack	ETSI 300/600mm rack	ETSI 600mm rack
Heat Dissipation		Fan		
Power Supply		-48VDC/-60VDC		
Operation Environment		Temperature: Long-term operation: 5°C to 40°C Short-term operation: -5°C to 45°C		
		Relative humidity: Long-term operation: 5% to 85% Short-term operation: 5% to 90%		