



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 U32



OSN 9800 U64

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### Packet Optical Convergence

Universal switching, universal transport to maximize network efficiency

### 400G/1T Oriented Platform

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

### TSDN Based Architecture

Open and programmable to stimulate rapid business innovation

Specifications		OptiX OSN 9800 U32	OptiX OSN 9800 U64
Dimensions (HxWxD)		1900x498x295mm	2200x600x600mm(with cabinet)
Number of Service Slots		32	64
OTN Cluster		2+8	2+4
Switching Capability	Optical	Up to 20-degtrree C-D-C-G ROADM	
	Electrical	32 Tbit/s ODUk (k = 0, 1, 2, 2e, 3, 4, flex) 6.4 Tbit/s packet services 5.12 Tbit/s VC-4 160 Gbit/s VC-3/VC-12	64 Tbit/s ODUk (k = 0, 1, 2, 2e, 3, 4, flex) 12.8 Tbit/s packet services 10.24 Tbit/s VC-4 160 Gbit/s VC-3/VC-12
Number of Ports	Max OTU4 Ports	128	256
	Max 100GE Ports	192	384
	Max OTU3 Ports	64	128
	Max 40GE Ports	64	128
	Max OTU2 Ports	960	1920
	Max 10G Ports	960	1920
	Max GE/2.5G Ports	960	1920
	Max OTUC2 Ports	128	256
	Max 400GE Ports	32	64
	Max OTUC4 Ports	64	128
Channel Spacing		50/100 GHz fixed 37.5 - 400 GHz flex grid	
Wavelength Range		DWDM: 1528.8 nm to 1567.6 nm (Extended C Band, ITU-T G.694.1)	
Rate per Channel (Max.)		100G, 200G, 400G, 600G	
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/WSON PKT: PW APS, Tunnel APS, LAG, MC-LAG, MC-PW APS SDH: LMSP, SNCP, Ring MSP	
Easy OAM		ALS, AGC, ALC, APE, IPA Optical Doctor, Fiber Doctor	
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		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) Traffic engineering	
T-SDN		IP+Optical, BOD,OVPN, Automation	
Submarine System		SLTE	
Installation Rack		ETSI 300/600mm rack	ETSI 600mm rack
Heat Dissipation		Fan	
Power Supply		-48V DC/-60V DC	
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%	