

Product Brochure

Huawei OptiXtrans E9600 series

The Huawei OptiXtrans E9600 series are intelligent all-optical transmission platforms designed for enterprises. The OptiXtrans E9600 series can be widely used in industries such as ISP, energy, electric power, transportation, education, and finance that are crucial to national economy and people's livelihood, guaranteeing that a large amount of production data is securely and reliably transmitted between metro aggregation, backbone, and data center (DC) networks in major cities.



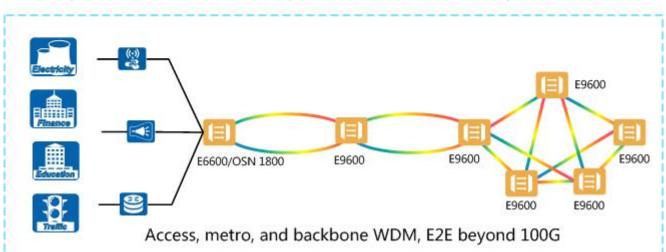
OptiXtrans E9624



OptiXtrans E9612



OptiXtrans E9605



Product Highlights

Ultra-Broadband: New Rate + New Spectrum

- Ultra-large capacity, 100 800G/wavelength programmable
- Ultra-wide spectrum: 120 wavelengths using Super C-band, which can be extended to C+L band to provide over 200 wavelengths and 48T/fiber capacity

Optical+Electrical flexible grooming, creating a 3D-mesh high-speed interconnection network

Simplified: 5-in-1 Platform

- Optical/Ponder/OTN/VC/PKT, 5-in-1, fewer device types required
- Unified grooming and transmission of OTN/VC/PKT services, simplifying network architecture and improving bandwidth utilization

Intelligent: Al-empowered O&M, shifting O&M mode from reactive to proactive

Virtualized bandwidth operation services based on the SDN design support the transition of WDM networks towards new transmission networks in the cloud era. Online, intelligent, visualized, and big data-based fault prediction is achieved, shifting O&M mode from reactive to proactive, improving service quality, and reducing OPEX.

Product Specifications (E9624/E9612/E9605)

Specifications		E9624	E9612	E9605	
Subrack dimensions (mm)		747.2 (H) x 442 (W) x 295 (D)	347.2 (H) x 442 (W) x 295 (D)	177 (H) x 442 (W) x 295 (D)	
Suitable cabinet ^a		ETSI 300/600 cabinets, such as A63B19-inch cabinet			
Max. number of slots for service boards		1:1 cross-connect mode: 12 large slots or 24 small slots 1:3 cross-connect mode: 10 large slots or 20 small slots NOTE The E9624 subrack supports slot splitting. One 11 U slot of the E9624 subrack can be split into two 5.5 U slots.	13	5	
Switc	Optical	1 to 20-degree reconfigurable optical add/drop multiplexer (ROADM)			
hing capa bility	Electrical	 1:1 cross-connect mode: 4.8 Tbit/s ODUk 2.4 Tbit/s packet services 1.92 Tbit/s VC-4 80 Gbit/s VC-3/VC-12 1:3 cross-connect mode: 10 Tbit/s ODUk 2 Tbit/s packet services 1.6 Tbit/s VC-4 80 Gbit/s VC-3/VC-12 	N/A		
Max. number of wavelengths		 Fixed grid: 120 wavelengths @50 GHz grid Flex grid: The maximum number of wavelengths is related to the width of the flex channel. 			
Wavelength range		DWDM system: 1524.50 nm to 1572.06 nm (super C-band) CWDM system: 1471 nm to 1611 nm (S+C+L Band)			
Max. rate per channel		400G bit/s (OTUC4)	400G bit/s (OTUC4)		

Specifications		E9624	E9612	E9605	
Service type		Synchronous digital hierarchy (SDH)/synchronous optical network (SONET), Ethernet, SAN, OTN, Video			
Packet service capacity		 Support E-Line/E-LAN (MEF) and VPWS/VPLS (IETF) Support MPLS-TP Number of MPLS tunnel: 64x1024 Number of PW: 64x1024 Number of E-Line: 32x1024 Number of E-LAN: 8x1024 	N/A		
Line rate		2.5Gbit/s, 10Gbit/s, 100 Gbit/s, 200G bit/s, 400G bit/s	10Gbit/s, 100 Gbit/s, 200G bit/s, 400G bit/s		
Supported pluggable optical modules		eSFP, SFP+, TSFP+, CFP, CFP2, QSFP28, SFP28, QSFP+, QSFP-DD	eSFP, SFP+, TSFP+, CFP, CFP2, QSFP28, SFP28, QSFP+		
Topology		Point-to-point, chain, star, ring, r	chain, star, ring, ring-with-chain, tangent ring, intersecting ring, and mesh		
Redu ndan cy	Network level protection (OTN)	Client 1+1 protection, ODUk SNCP, tributary SNCP, intra- board 1+1 protection, LPT	Client 1+1 protection, intra-board 1+1 protection, LPT		
and prote ction	Network level protection (Packet)	ERPS, LAG, PW APS, Tunnel APS	N/A		
	Network Level Protection (OCS)	LMSP, SNCP, Ring MSP	N/A		
	Equipment level protection	Power redundancy, fan redundancy, cross-connect board redundancy, communication control and clock processing unit redundancy	Power redundancy, fan redundancy, communication control unit redundancy, clock processing unit redundancy		
Synchi	ronization	Synchronous Ethernet, IEEE 1588v2, ITU-T G.8275.1/G.8273.2			
ASON		Electrical-Layer ASONOptical-Layer ASON	Optical-Layer ASON		
TSDN		 Online Service Provisioning Survivability Analysis BOD IP and Optical Collaboration 			
Power Supply		DC power input Standard working voltage: -4 Working voltage range: -40 \	voltage: 49V/ta_60V/		

Specifications	E9624	E9612	E9605	
			voltage: 100V AC to 120V AC, and 200V AC to 240V AC	
			High-voltage DC power input	
			Standard working voltage: 240V HVDC	
Operation environment	Subrack temperature: • Long-term operation: 0°C to 45°C; • Short-term operation ^b : -5°C to 50°C Relative humidity: • Long-term operation: 5% to 85% • Short-term operation ^b : 5% to 90%	Subrack temperature: • Long-term operation: 0°C to 45°C; • Short-term operation ^b : -5°C to 55°C Relative humidity: • Long-term operation: 5% to 85% • Short-term operation ^b : 5% to 90%		
Mean Time To Repair (MTTR)	4 hours			
Mean Time Between Failure (MTBF)	66.89 years			

- a: The ETSI/19-inch standard defines only part of the cabinet dimensions. Therefore, the distance between the cabinet column and door plate varies depending on cabinet manufacturers. For details about the dimensions of different subracks, see the detailed description of each subrack.
- b: Short-term operation means that the continuous operating time does not exceed 96 hours and the accumulated time per year does not exceed 15 days.

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