# 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

Access, metro, and backbone WDM, E2E beyond 100G
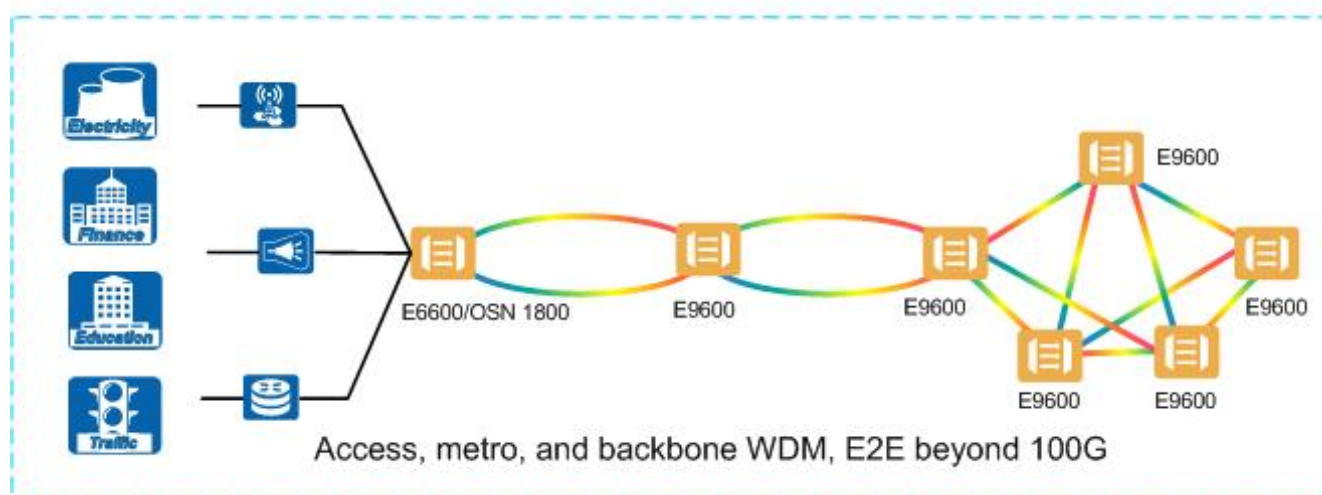
Product Highlights

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: AI-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

Specifications		OptiXtrans E9624	OptiXtrans E9612
Subrack dimensions (mm)		747.2 mm (H) x 442 mm (W) x 295 mm (D)	347.2 mm (H) x 442 mm (W) x 295 mm (D)
Suitable cabinet[a]		• ETSI 300/600 cabinets, such as A63B • 19-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 M24 subrack supports slot splitting. One 11 U slot of the M24 subrack can be split into two 5.5 U slots.	13
Switching capability	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		1524.50 nm to 1572.06 nm (ultra C-band)	
Max. rate per channel		600G bit/s (OTUC6)	200G bit/s (OTUC2)
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)	N/A

Specifications		OptiXtrans E9624	OptiXtrans E9612
		• Support MPLS-TP • Number of MPLS tunnel: 64x1024 • Number of PW: 64x1024 • Number of E-Line: 32x1024 • Number of E-LAN: 8x1024	
Line rate		10Gbit/s, 100 Gbit/s, 200G bit/s, 400G bit/s, 600G bit/s	10Gbit/s, 100 Gbit/s, 200G bit/s
Supported pluggable optical modules		eSFP, SFP+, TSFP+, CFP, CFP2, QSFP28, SFP28, QSFP+, QSFPDD	
Topology		Point-to-point, chain, star, ring, ring-with-chain, tangent ring, intersecting ring, and mesh	
Redundancy and protection	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
	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
Synchronization		Synchronous Ethernet, IEEE 1588v2, ITU-T G.8275.1/G.8273.2	
ASON		• Electrical-Layer ASON • Optical-Layer ASON	Optical-Layer ASON
TSDN		• Online Service Provisioning • Survivability Analysis • BOD • IP and Optical Collaboration	

Power Supply		• Nominal working voltage: -48V DC/-60V DC
		• Working voltage range:
		  − -48 V DC: -40 V to -57.6 V
		  − -60 V DC: -48 V to -72 V	

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%

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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