

Leading Intelligent IP Networks

All Scenarios Intelligent Routers NetEngine 8000 X Series



Large Capacity

- Large capacity: 14.4 T/slot,
- High density board: 36 x 400GE, 48 x 100GE, 72 x 25GE

All Scenarios

- Support P/PE, SR, Dedicated Leased Line, IGW, DC-GW and BNG scenarios

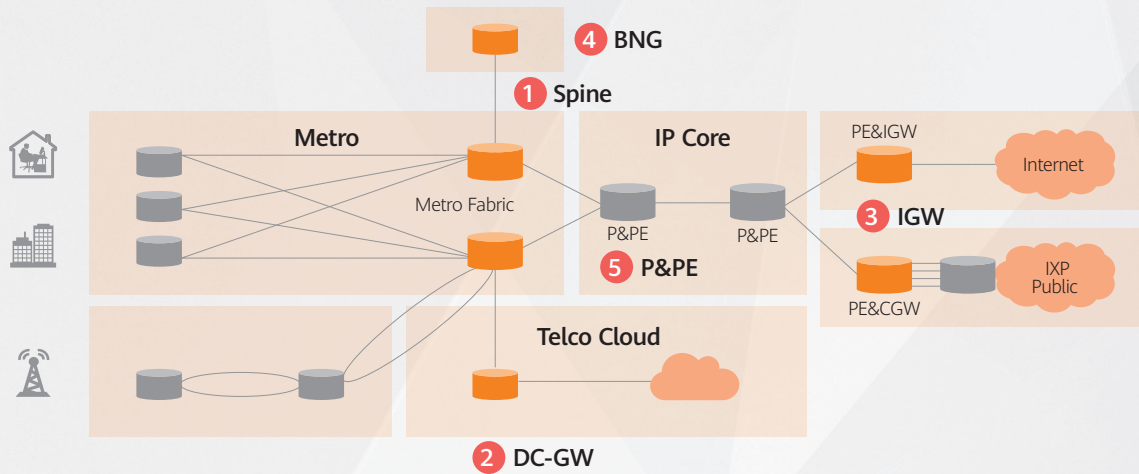
SLA Guarantee

- SRv6 Powered Intelligent Connections
- In-situ Flow Information Telemetry (iFIT)
- Hard network slicing (FlexE)



Product Introduction

Huawei's NetEngine 8000 X series comprises the X4 and the X8, two full-service intelligent metro routers designed to meet the requirements for new services and numerous connections in cloud era. The X series adopts a new hardware architecture which provides a capacity of 14.4T per slot, supports SRv6 for end-to-end intelligent connections, and integrates AI-booster intelligent O&M capabilities, helping carriers build simplified intelligent metro networks. The X series applies to metro core, aggregation, DC gateway, broadband network gateway and international gateway scenarios.



Product Specifications

Parameter	NetEngine 8000 X8	NetEngine 8000 X4
System capacity	14.4 T/slot	14.4T/slot
Service slots	8	4
Dimensions (W x D x H)	442 mm x 872 mm x 703 mm (15.8U)	442 mm x 872 mm x 437.4 mm (9.8U)
L2 features	IEEE 802.1q, IEEE 802.1p, IEEE 802.3ah, IEEE 802.1ag, STP/RSTP/MSTP, G.8032, LACP, VLAN and Bridge domain	
L3 features	OSPF, OSPFv3, RIP, RIPng, IS-IS, IS-ISv6, BGP, BGP4+, ACL, ACL6, 6PE, 6VPE, Static routes, GRE, VxLAN	
MPLS	LDP, RSVP-TE, VPLS, VPWS, L3VPN, Seamless MPLS	
SR/EVPN	SRv6 BE, SRv6 policy, SR BE/TE, SR policy, EVPN L3VPN, EVPN VPWS, EVPN VPLS, SRv6 SFC	
Multicast	IGMP, MLD, Static Multicast Routing, PIM-SM/SSM, MSDP, MBGP, MVPN, NGMVPN, BIER	
BNG	PPPoE, IPoE	
Clock	1588v2, Synchronous Ethernet Clock, G.8275.1, G.8275.2	
OAM	iFIT, NQA, TWAMP, RFC2544, Y.1564, BFD, MPLS OAM, MPLS TP OAM, VRRP, Ethernet OAM, Y.1731	

Support Boards

Category	Description
100GE/50GE	LPUI-4T: 40 x 100GE QSFP28 LPUI-4T-L: 40 x 100GE QSFP28
25GE/10GE	LPUI-2T: 72 x 25GE/10GE/GE SFP LPUI-2T-L: 72 x 25GE/10GE/GE SFP