

Intelligent IP Networks



Industry's Most Compact 2U 300mm Full-service Router **NetEngine 8000 M4**



1.2Tbps, Multiple port modes, flexible and switchable

Most Compact

- 1.2Tbps switch capacity
- 2 U height, 220mm depth

All Scenarios

- FMC, DC Gateway and BBU Hotel
- SR/SRv6/EVPN/BNG
- IFIT E2E & Hop by Hop OAM
- High-precision clock

Abundant Interfac

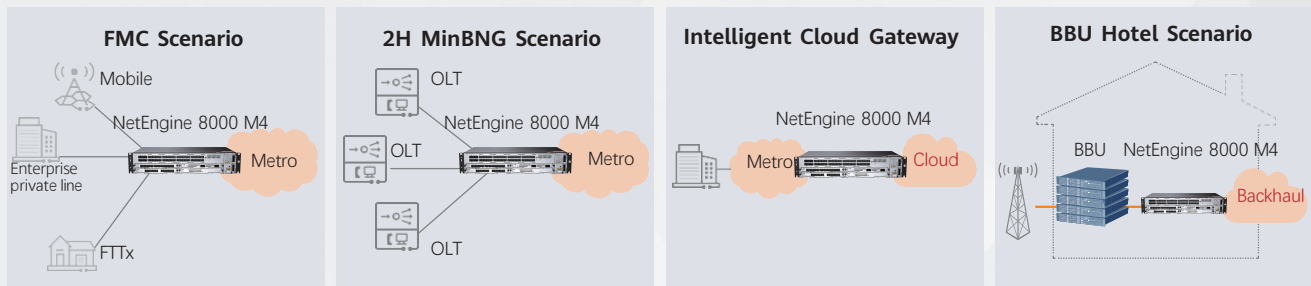
- Fixed ports & 4 service slots
- High density, 400GE/100GE/50GE/40GE/25GE/10GE/GE/POS/CPOS/E1



Product Overview

NetEngine 8000 M4 is the industry's most compact router for multi-service aggregation. This device is an optimal cost-effective router, which supports 1.2Tbps system capacity with 2U height, 220mm depth and 4 service slots. It flexibly adapts to different services by the fixed ports and subcards, supporting 400GE/100GE/50GE/40GE/25GE/10GE/GE/ POS/CPOS/E1 interfaces. The compact design saves precious space resources and greatly reduces CAPEX. It also supports features such as SR, SRv6, EVPN, FlexE, IFIT, BNG and 1588v2 high-precision clock. NetEngine 8000 M14 can be applied to FMC, Mini BNG, Intelligent Cloud gateway and BBU hotel scenarios.

Application Scenario



Product Specifications

Dimensions (W*D*H)	442mm * 220mm * 88.4mm(2U)
System Capacity	1.2Tbps
Power Input	DC: -40V ~ -72V AC: 200V~240V/100V~127V dual-live wire
Fixed Ports Modes (when 4 group use same type)	Type1: 4*100GE/50GE/40GE+16*GE+16*25GE/10GE Type2: 16*25GE(breakout)+16*GE+16*25GE/10GE Type3: 4*50GE+16*10GE/GE+16*25GE/10GE Type4: 4*40GE+16*10GE/GE+16*25GE/10GE Type5: 16*10GE(breakout)+16*10GE/GE+16*25GE/10GE Type6: 32*25GE/10GE
Service Slots	DC: 4 slots, AC: 2 slots
400GE Optical Transceiver	QSFP-DD 120km(ZR)/40km(ER8)/10km(LR8)/2km(SR4)
100GE Optical Transceiver	QSFP28 80km(ZR4)/40km(ER4)/10km(LR4)
50GE Optical Transceiver	QSFP28 80km(ZR)/40km(ER)/10km(LR), BiDi 40km(ER)/10km(LR)
BNG	64K session, 64K sessions@ 4 queues
MPLS Features	LDP, RSVP-TE, VPLS, VPWS, L2VPN, L3VPN, seamless MPLS
SR/EVPN Features	SRv6 BE, SRv6 policy, SR BE/TE, SR policy, EVPN L3VPN, EVPN VPWS, EVPN VPLS
Multicast	IGMP, MLD, PIM-SM/SSM, MSDP, MBGP, MVPN, NGMVPN, BIER, BIERv6
Hardware Slicing	FlexE, Channelized Sub-interface
Value-added service	BNG(PPPoE/IPoE), IPSec, CGNAT
Clock (only supported by fixed ports)	1588v2, G.8275.1, 1588 ACR, Synchronous Ethernet
OAM	IFIT, NQA, TWAMP, RFC2544, Y.1564, BFD, MPLS OAM, MPLS TP OAM, VRRP, Ethernet OAM, Y.1731

Product Overview

Supported in V800R022C00 version.

Category	Description
400GE	1*400GE(QSFP-DD)/100GE (QSFP28) PIC
100GE	2*100GE/50GE (QSFP28) PIC
50GE	2*50GE/1*100GE (QSFP28) PIC
25GE	4*25GE(QSFP28)/10GE(SFP+) PIC
10GE	10*10GE(SFP+)/GE(SFP) PIC
GE	10*GE/FE(SFP) PIC
VSUP-100	CGNAT/IPSEC

Expected to be supported in later version.

Category	Description
25GE	8*25GE(QSFP28)/10GE(SFP+) PIC
10GE	4*10GE(SFP+)/GE(SFP) MACsec PIC
GE	20*GE(CSFP)/10*GE(SFP) PIC
	8*100/1000Base-RJ45 PIC
E1	16/32*E1 PIC (75 ohm/120 ohm)
POS/CPOS	4*POS(STM-1/OC-3) PIC
	4*CPOS(STM-1) PIC