Leading Intelligent IP Networks

All-scenario Access & Aggregation Router Oriented to the Cloud Era NetEngine 8000 M8

Compact Size Large Capacity

- 3U, 220mm, 1.2Tbps
- Max 12*100GE

SRv6 Ready Simplified Network

- SRv6/EVPN, simplified protocol
- Network slicing, 1G granularity, leading in the industry
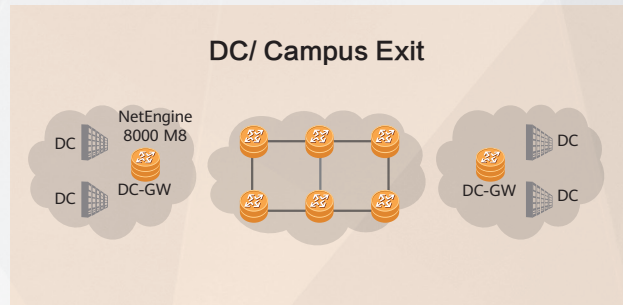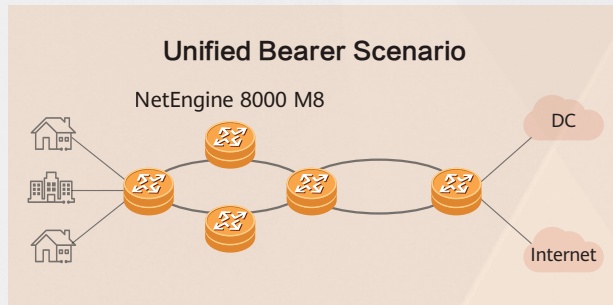
Flexible Cards Easy Evolution

- Flexible card, flexible service configuration
- Programmable NP, smooth evolution

HUAWEI

Product Introduction

NetEngine 8000 M8 is a all-scenario access & aggregation router for the cloud era. It's featured with 3U height, 220mm depth, supports up to 1.2T port capacity and 8 service slots, flexibly adapts to different services, and supports 100GE/50GE/25GE/10GE/GE/E1/POS/cPOS interfaces. The compact design saves precious resources, greatly reduces Capex. It supports features such as SRv6, EVPN, FlexE, and 1588v2 high-precision clock, which is the best choice for multi-service convergence in the cloud era.

Application Scenario

Unified Bearer Scenario

DC/ Campus Exit

Product Specifications

Dimensions (H x W x D)	132.6mm × 442mm × 220mm (3U)
Switching Capacity (Bidirectional)	2.4 Tbps
Forwarding Performance	453 Mpps
Power Input	DC: -40V to -72V; ; AC: 90V to 290V
Typical Power Consumption	485 W
Slot	8(DC) / 6(AC)
Port Capability	100GE: 12; 50GE: 16; 25GE: 32; 10GE: 80; GE: 160
L2 Feature	IEEE802.1q, IEEE802.1p, IEEE 802.3ad, IEEE 802.1ab, STP/RSTP/MSTP
L3 Feature	OSPF, RIP, IS-IS, BGP, ACL, IPv4, IPv6
MPLS Feature	LDP, RSVP-TE, L2VPN, L3VPN, Seamless MPLS
SRv6/EVPN	Supported
Multicast	IGMP, Static Multicast Routing, PIM-SM/SSM, MBGP, NGMVPN
Clock	1588v2, Synchronous Ethernet clock
OAM	Telemetry, iFIT, BFD, NQA, RFC 2544, TWAMP
Operating Temperature	-40℃～65℃ (Startup temperature -20℃)
Operating Humidity	Short term: 5%RH to 95% RH, long term: 5%RH to 85% RH, non-condensing

Supports subcards

Category	Description
100GE /50GE	2*50GE/1*100GE Optical interface board(QSFP28)
	2*50GE/2*100GE Optical interface board(QSFP28)*
25GE	4*25GE(SFP28)/10GE(SFP+) Optical interface board
10GE	10*10GE(SFP+) Optical interface board
	4*10GE(SFP+) Optical interface board

Category	Description
GE	20*GE(CSFP)/10*GE(SFP) Optical interface board
	10*GE/FE(SFP) Optical interface board
E1	16*E1 Electrical interface board(75 ohm/120 ohm)
POS/CPOS	4*POS(STM-1/OC-3) Optical interface board
	4*CPOS(STM-1) Optical interface board