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NetEngine 8000 M8-G Service Router

Datasheet

Product Overview

The NetEngine 8000 M8-G All-Scenario Smart Router is a high-end smart router for the industry. It is mainly used in access and convergence scenarios

Intelligent simplified IP bearer network solution with simplified architecture, intelligent connection and high availability. Specific as follows:

(1)The NetEngine 8000 M8-G breaks through many technical difficulties such as ultra-high-speed signal transmission, super heat dissipation, and efficient power supply. It achieves a compact high-capacity router of 3U/1.2 Tbit/s and 220 mm, making it the most compact router in the industry. It supports a full range of interfaces to meet the needs of traffic growth and diversified service access in the cloud era. At present, Ethernet, SDH and PDH interfaces are supported, and the roadmap supports PCM interfaces. The NetEngine 8000 M8 is an all-scenario convergence platform that supports home broadband, dedicated line, mobile bearer and cloud bearer scenarios, simplifying network layers and complexity. FlexE (network slicing) functions provide multi-purpose, integrated hosting on one network.

(2)The NetEngine 8000 M8-G supports SRv6 and enables smart connectivity. Based on IPv6, SRv6 provides massive continuous addresses and rich scalability capabilities to realize cross-domain automatic connection and minute-level service provisioning, cloud scheduling network and one-hop to the cloud. SRv6 can identify applications and tenants, and perform intelligent distribution of delay and bandwidth according to customer requirements to ensure service SLA. Network protocols are reduced from 10+ to 2, simplifying network operation and maintenance.

(3)NetEngine 8000 M8-G supports intelligent operation and maintenance, and introduces automation and intelligent technology to realize intelligent operation and maintenance. Based on iMaster NCE,IFIT technology accurately detects network SLA in real time, visualizes service quality in real time, and supports minutelevel fault location.Unique ROAM algorithm, intelligent shunt and optimization; Intelligent algorithms reduce the number of alarm displays by 99%.

The product fully supports the future-oriented next generation unified network SRv6 technology, which can realize the construction of various parts of the IP backbone, metro, mobile backpass and data center network, and can be used in 5G bearer, personal/enterprise cloud, cloud mutual connection, IOT, government-enterprise dedicated line, home wide application, CDN and other applications. As the basic carrying protocol of the whole network, it can realize the comprehensive carrying capacity of all services from end to end. Through SRv6, protocol simplification, large-scale networking, seamless integration, high reliability, integrated business chain, programmable network + business, whole ecological industrial system can be achieved.

It supports the Data Redundancy Elimination (DRE) function to compress/decompress data between the wide area border routers to reduce the wide area chain

Road bandwidth consumption, save line costs, accelerate distributed data center deployment.

The NetEngine 8000 M8-G integrates a variety of functions, simplifies the network structure, provides rich service types, reliable quality of service and intelligent operation and maintenance, and leads the IP WAN to the intelligent network of autonomous driving, providing continuous momentum for the business success of enterprise customers.

Technical Specification

Items	Instructions
Cabinet Installation Standards	21-inch ETSI-compliant width 19-inch IEC-compliant width
Dimensions (W × D × H, excluding packing material)	442mm × 220mm × 132.6mm
Dimensions (W × D × H, including packing material)	585mm × 390mm × 360mm
Chassis Height	3U
MTBF	112.71 year
MTTR	0.5 hour
Availability	0.999999494
Power Supply System	AC
Rated Input Voltage	200V to 240V/100V to 127V dual live wire with 240V HVDC support
Input Voltage Range	90V to 290V
Maximum Input Current	10A
Rated Output Power	1500W
Maximum Input Line Diameter [mm^2]	C13 cable as standard
Front Stage Circuit Breaker/Fuse	⩾10A
Heat Dissipation Method	System air cooling
Air Flow Direction	Left in and right out
Room Temperature Noise (sound power)	<72dB (meets ETSI 72dBA)
100GE Maximum Number of ports	IPUA-1T2/IPUA-1T2-B:9; IPUA-480/IPUA-480-B:4
50GE Maximum Number of Ports	IPUA-1T2/IPUA-1T2-B:12; IPUA-480/IPUA-480-B:8
40GE Maximum Number of Ports	IPUA-1T2/IPUA-1T2-B:9; IPUA-480/IPUA-480-B:4
25GE Maximum Number of Ports	IPUA-1T2/IPUA-1T2-B:24; IPUA-480/IPUA-480-B:16
10GE Maximum number of Ports	IPUA-1T2/IPUA-1T2-B:60; IPUA-480/IPUA-480-B:48
Maximum Number of GE Ports	IPUA-1T2/IPUA-1T2-B:120; IPUA-480/IPUA-480-B:120
Maximum Number of FE Ports	IPUA-1T2/IPUA-1T2-B:120; IPUA-480/IPUA-480-B:120
Maximum Number of Ports of Electrical Port	IPUA-1T2/IPUA-1T2-B:60; IPUA-480/IPUA-480-B:60
IPU Redundancy	1:01
Power Supply Redundancy	1+1
Fan Redundancy	1+1, short-term normal operation in 40°C environment after single fan failure (2 fans in one fan module)
Long-term Operating Temperature	-20°C to 55°C
Operating Environment Temperature Change Limit	⩽30°C/hour
Storage Temperature	-40°C to 70°C
Long-term Working Environment Relative Humidity	5% to 85%RH, non-condensing
Short-term Working Environment Relative Humidity	5% to 95%RH, non-condensing
Store Relative Humidity	5% to 95%RH, non-condensing
Long-term Working Altitude	⩽4000m (when the altitude is between 1800 m and 4000 m, the operating temperature of the equipment will be reduced by 1°C for every 220 m increase)
Storage Altitude	<5000m

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