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NetEngine 8000 M6-G Service Router

Datasheet



■ Product Overview

The NetEngine 8000 M6-G is an all-scene converged bearer router for the cloud era. It has a height of 2U, a depth of 220 mm, a maximum port capacity of 160 Gbit/s, six service slots, and flexibly ADAPTS to different services. It supports 50GE, 25GE, 10GE, GE, FE, CPOS, and E1 ports. The compact design saves valuable space resources, significantly reduces capital expenditure, and protects existing investments. Wide temperature design, deployable in all scenarios. It also supports features such as SRv6, EVPN, network slicing and 1588v2 high-precision clock, making it the best choice for multi-service integration in the cloud era.

The product fully supports the future-oriented next generation unified network SRv6 technology, which can realize the construction of IP backbone, metro area, mobile backpass and data center and other network parts, which can be carried by 5G, 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.

The NetEngine 8000 M6-G integrates a variety of functions, simplifies the network structure, provides rich service types, reliable service quality and intelligent operation and maintenance, leads the IP WAN to the intelligent network of automatic driving, and provides continuous momentum for the business success of enterprise customers.

■ Technical Specification

| Items | Description |
|--|--|
| Cabinet Installation Standard | 21-inch ETSI-compliant width 19-inch IEC-compliant width |
| Dimensions (W × D × H, excluding packing material) | 442mm × 220mm × 88.9mm |
| Dimensions (W × D × H, including packing material) | 585mm × 390mm × 335mm |
| Chassis Height | 2U |
| MTBF | 116.61 year |
| MTRR | 0.5 hour |
| Availability | 0.99999511 |
| Power Supply System | AC |
| Rated Input Voltage | 200V to 240V/100V to 127V dual-live wire, supporting 240V HVDC |
| Input Voltage Range | 90V to 290V |
| Maximum Input Current | 10A |
| Rated Output Power | 1500W |
| Heat Dissipation Method | System air cooling |
| Air Flow Direction | Left in and right out |
| Room Temperature Noise (sound power) | <55dB(A) |
| Total Number of Slots | 9 |
| Number of SPU Slots | 4 |
| 50GE Maximum Number of Ports | 2 |
| 25GE Maximum Number of Ports | 6 |
| 10GE Maximum number of ports | 14 |
| Maximum number of GE ports | 70 |
| Maximum number of FE ports | 70 |
| The Maximum Number of Electrical Ports | 40 |
| CXP Redundancy | 1:01 |
| Power 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) |



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Guangdong Glory Technology Co., Ltd.

Email: service@glory-t.tech

Hotline: +86 400-800-6805

For more information, please visit www.glory-t.cn

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