S9501-28SMT

DISAGGREGATED
CELL SITE GATEWAY ROUTER

The UfiSpace S9501-28SMT is a high-performance, versatile open networking white box router that is designed to address the changing needs of backhaul transport requirements as Telecoms make the transition from legacy technologies towards 5G. It enables telecoms and service providers to deploy disaggregated open network infrastructure to lower costs and rapidly scale existing services for edge computing, mobile backhaul, and broadband access applications.

The S9501-28SMT is future-proofed with a powerful quad-core processor, 28 high-speed interfaces, and full timing features supporting IEEE 1588v2 and SyncE. It is suitable for both indoor and outdoor deployments with redundant, hot-swappable components for convenience, increased availability, reliability and lower costs of maintenance.

KEY FEATURES

- 1GB deep packet buffer
- MACSec Support
- Supports full SyncE and IEEE 1558v2 (T-GM, T-BC, T-TC, and T-TSC)
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing enabled with UfiSpace's Network Timing Module
- Integrated GNSS receiver with passive or active antenna support
- Rich timing interfaces: ToD, 1PPS, BITS and 10MHz
- Supports 100M/1G/10G port speeds
- Individual BMC allowing automatic and remote operations for monitoring and managing platform health status
- 1RU, compact size with 302mm depth
- Hot swappable power supplies and fan modules

KEY BENEFITS

- Compatible with open networking standards for highly reliable composable networks.
- Future-proof for 5G with ultra-low forwarding latency, high precision frequency and phase timing synchronizations.
- Temperature hardened to offer more flexibility for deploying outside plant cabinets for cell site backhauls.
- Suitable for WAN and long-haul applications, designed for up to 80km backhaul distances.
- Enable T-GM source at cell sites without the need to install additional equipment.
- Versatile applications such as 4G/5G aggregation, mobile backhaul, wireless backhaul and private 5G network.

SPECIFICATIONS

PHYSICAL

- 8 x 10GE SFP+ ports
- 16 x 1GE SFP ports
- 4 x 1GE RJ45 ports
- 1 x RJ45 serial console port
- 1 x 1000 Base-T Ethernet port for OOB
- 1 x USB 2.0 Type-A general purpose port

Processor	Intel Denverton-NS C3508 4 Cores @1.6GHz
Memory	1x 8GB DDR4 SO-DIMM with ECC
Storage	1x 32GB SSD
ASIC	Broadcom Qumran-UX BCM88270
Timing Interfaces	1 x GNSS input 1 x 1PPS input/output 1 x 10MHz input/output 1 x ToD input/output 1 x BITS input
Hardware Timing Capabilities	ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 (Default, G.8265.1, G.8275.1, G.8275.2, T-TC, T-BC/OC, T-GM)
Chassis (WxDxH)	1 RU, 440 x 302 x 43.5mm or 17.32" x 11.89" x 1.713" Net weight: 6.6 kg. or 14.55 lbs.
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 2+1 redundant fans

ENVIRONMENTAL

Power Supply	AC input: 100 ~ 240V, 3~1.5A, 50-60Hz DC input: -36 ~ -75V, 8~4A Max power: 200 Watts
Max. Operating Specs.	Operating temperature: -40℃ to 65℃ (-40°F to 149°F) Operating humidity: 5% to 93% (RH), noncondensing
Max. Non-Operating Specs.	Storage temperature: -40℃ to 70℃ (-40°F to 158°F) Storage humidity: 5% to 85% (RH), non-condensing

PERFORMANCE

Switching Capacity	120 Gbps
Packet Throughput	125Mpps

REGULATORY COMPLIANCE

Safety		EMC	
	UL 62368-1 IEC/EN 60950-1 IEC/EN 62368-1 BSMI CNS 14336-1		FCC Part 15, Subpart B, Class A EN55032, Class A EN300 386 EN55024 EN301 489-1 EN301 489-19 EN303413 BSMI (CNS 13438), Class A

Specifications are subject to change without notice.

S9501-28SMT

Telecom Networking Solutions

S9501-28SMT Front and Back Views

SUPPORTED ACCESSORIES

Transceivers
10GBASE LR SFP+, 10GBASE ER SFP+, 10GBASE ZR SFP+, 1GBASE-T RJ45, 1GBASE SX SFP, 1GBASE LX SFP, 1GBASE EX SFP, 1GBASE ZX SFP

Cable Types
SMA coaxial cable with 1/4-36UNS-2B connector for GNSS
SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz
Shield cable with RJ45 for ToD
Shield cable with RJ48 for BITS

Power Supply Types
PSU-201-DISB, 200W DC PSU, intake air flow
PSU-201-AISB, 200W AC PSU, intake air flow

Fan Types
FAN-402825-HD, exhaust air flow

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