

## 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 1588v2 (T-GM, T-BC, T-TC, and T-TSC)
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing accuracy support
- Internal GNSS receiver for master clock implementations
- 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 and redundant 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 1/10G SFP+ ports
- ◆ 16 x 100M/1G SFP ports
- ◆ 4 x 100M/1G RJ45 ports
- ◆ 1 x RJ45 serial console port
- ◆ 1 x 100/1000M RJ45 management port
- ◆ 1 x USB 2.0 Type-A port

Processor Intel Denverton-NS 4-Core @ 1.6GHz

Memory 8GB DDR4

Storage 32GB SSD

ASIC Broadcom Qumran-UX BCM88270

BMC AST2620

Timing Interfaces  
 1 x GNSS input SMA  
 1 x 1PPS input/output SMB  
 1 x 10MHz input/output SMB  
 1 x ToD input/output RJ45  
 1 x BITS input RJ48

Timing Support  
 Stratum 3E OCXO  
 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"  
 Weight: 4.44kg or 9.79lb

Redundancy  
 Hot swappable, 1+1 redundant PSU  
 Hot swappable, 2+1 redundant Fans

## ENVIRONMENTAL

Power Specs. AC input: 100 to 240V, 3A  
 DC input: -36 to -75V, 8A  
 Typical power: 46 Watts (no transceiver)

Max. Operating Specs. Operating temperature: -40°C to 65°C (-40°F to 149°F)  
 Operating humidity: 5% to 85% (RH), non-condensing

Max. Non-Operating Specs. Storage temperature: -40°C to 70°C (-40°F to 158°F)  
 Storage humidity: 5% to 93% (RH), non-condensing

## PERFORMANCE

Switching Capacity 120Gbps

Deep Buffer 1GB

## REGULATORY COMPLIANCE

Safety UL 62368-1  
 IEC 62368-1  
 BSMI

Environment WEEE  
 RoHS

EMC FCC Part 15, Subpart B, Class A  
 ICES-003, Class A  
 EN 55032, Class A  
 EN 55035  
 EN 62479  
 EN 50663  
 EN 300 386  
 EN 301 489  
 EN 303 413  
 BSMI  
 VCCI CISPR 32, Class A

Specifications are subject to change without notice.

# S9501-28SMT

Telecom  
 Networking  
 Solutions

S9501-28SMT Front and Back Views



## ACCESSORIES

### Compatible Transceiver Types

10G SFP+ SR, 10G SFP+ LR, 10G SFP+ ER, 10G SFP+ ZR, 1G SFP SX, 1G SFP LX, 1G SFP EX, 1G SFP ZX

### Compatible Timing Cable Types

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

### Available to Order

#### Power Supply Types

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

#### Fan Types

FAN-402818-HC, exhaust air flow

