

# S9510-28DC

## DISAGGREGATED CELL SITE GATEWAY ROUTER

The UfiSpace S9510-28DC 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 S9510-28DC is future-proof with 28 high-speed interfaces, support for OpenZR+, support for FlexE features and options for processing capabilities. It supports full timing features of IEEE 1588v2, SyncE, and TSN. Suitable for both indoor and outdoor deployments, the S9510-28DC has redundant, hot-swappable components for convenience, increased availability, reliability and lower costs of maintenance.

## KEY FEATURES

- Supports full SyncE and IEEE 1588v2 (T-GM, T-BC/OC, T-TC)
- Integrated Stratum 3E OCXO with optional hold over performances
- Supports Time Sensitive Networking (TSN) for low packet loss and low delay variation
- Supports FlexE for flexible bandwidth utilization
- Class C timing accuracy support
- Rich timing interfaces: 10MHz, 1PPS, ToD, and BITS
- Internal GNSS receiver for master clock implementations
- Supports 10/25/40/100/200/400G for 5G
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 4+1 redundancy support
- OIF FlexE version 1.1 and 2.0 compliant and support 400G total bandwidth

## 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, supports OpenZR+ for metro and regional aggregation.



# SPECIFICATIONS

## PHYSICAL

- ◆ 2 x 100/400G QSFP-DD ports with FlexE and OpenZR+ support
- ◆ 2 x 40/100G QSFP28 ports
- ◆ 24 x 10/25G SFP28 ports
- ◆ 1 x RJ45 serial console port
- ◆ 1 x 100/1000M RJ45 management port
- ◆ 1 x USB 3.0 Type-A port

Processor\* Intel Denverton-NS 4-Core @ 1.6GHz (Standard)  
Intel Denverton-NS 8-Core @ 1.7GHz (Premium)

Memory\* 8GB DDR4 (Standard)  
16GB DDR4 (Premium)

Storage\* 32GB SSD (Standard)  
128GB SSD (Premium)

BMC AST2620

ASIC Broadcom Qumran2a BCM88483

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

Timing Support Stratum 3E OCXO  
ITU-T Synchronous Ethernet (SyncE)  
IEEE 1588v2 (Default, G.8265.1 G8275.1,  
G.8275.2), T-GM, T-BC/OC, T-TC  
Time Sensitive Networking (TSN)

Chassis (WxDxH) 1 RU, 440 x 302 x 43.5mm  
or 17.32" x 11.89" x 1.713"  
Weight: 4.9kg or 10.80lb

Redundancy Hot swappable, 1+1 redundant PSU  
Hot swappable, 4+1 redundant Fans

## ENVIRONMENTAL

Power Specs. AC input: 100 to 240V, 6A  
DC input: -36 to -75V, 16A  
Typical power: 105 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 800Gbps

Deep Buffer 2GB

## 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  
AS/NZS CISPR 32, Class A  
IEC 61850-3  
IEEE 1613  
EN 50121-4  
IEC 62236-4

\*S9510-28DC has a standard SKU and a premium SKU.

Specifications are subject to change without notice.

# S9510-28DC

Telecom  
Networking  
Solutions

S9510-28DC Front and Back Views



## ACCESSORIES

### Compatible Transceiver Types

400G QSFP-DD SR4, 400G QSFP-DD LR4, 400G QSFP-DD FR4, 400G QSFP-DD ZR4, 400G QSFP-DD OpenZR+, 100G QSFP28 SR4, 100G QSFP28 LR4, 100G QSFP28 ER4, 25G SFP28 SR, 25G SFP28 LR, 25G SFP28 ER, 10G SFP+ SR, 10G SFP+ LR, 10G SFP+ ER, 10G SFP+ ZR

### 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-401-DISB-1, 400W DC, intake air flow  
PSU-401-AISB, 400W AC, intake air flow

#### Fan Types

FAN-402825-HD, exhaust air flow

