

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
- Rich timing interfaces: GNSS, 10MHz, 1PPS, ToD, and BITS
- Integrated GNSS receiver with passive or active antenna support
- Supports 1GE for legacy and 10/25/40/100/200GE/400GE 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

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

Processor* Intel Denverton-NS C3508 4 Core @ 1.6GHz (Standard)
Intel Denverton-NS C3708 8 Core @ 1.7GHz (Premium)

Memory* 1x8GB DDR4 SO-DIMM with ECC (Standard)
2x8GB DDR4 SO-DIMM with ECC (Premium)

Storage* 1x32GB M.2 SSD (Standard)
1x128GB M.2 SSD (Premium)

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/output RJ45
1 x BITS input RJ48

Timing Features 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"

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

ENVIRONMENTAL

Power Supply AC input: 100V~240V AC/DC
DC input: -48V DC/DC
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 93% (RH), noncondensing

Max. Non-Operating Specs. Storage temperature: -40°C to 70°C (-40°F to 158°F)
Storage humidity: 5% to 85% (RH), non-condensing

PERFORMANCE

Switching Capacity 800 Gbps

REGULATORY COMPLIANCE

Safety UL 62368-1 2nd
EN 60950-1
IEC/EN 62368-1
BSMI CNS 15598-1

EMC FCC Part 15B, Class A
ICES-003 ISSUE7
EN55032, Class A
EN55024
EN301 489-1
EN301 489-19
EN303413 V1.1.1
BSMI CNS 15936
VCCI

*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



SUPPORTED ACCESSORIES

Transceivers

400GBASE QSFP-DD SR8, 400GBASE QSFP-DD DR4, 400GBASE QSFP-DD LR4,
400GBASE QSFP-DD FR4, 400GBASE ZR QSFP-DD, 400GBASE ZR+ QSFP-DD
100GBASE QSFP28 SR4, 100GBASE QSFP28 LR4, 25GBASE SFP28 SR,
25GBASE SFP28 LR, 10GBASE SFP+ SR, 10GBASE SFP+ LR, 1GBASE SFP SX,
1GBASE SFP LX, 1GBASE-T

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

FRU 400W DC, intake air, slim type, blue colored latch
FRU 400W AC, intake air, slim type, blue colored latch

Fan Types

FAN-402825-HD, exhaust air flow

