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+, FlexE and carrier features including Ethernet OAM, IP/MPLS, Segment Routing and more. 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 1558v2 (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 1/10/25G 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

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

ENVIRONMENTAL

Power Specs.	AC input: 100 to 240V, 6A DC input: -36 to -75V, 16A Typical power: 137 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

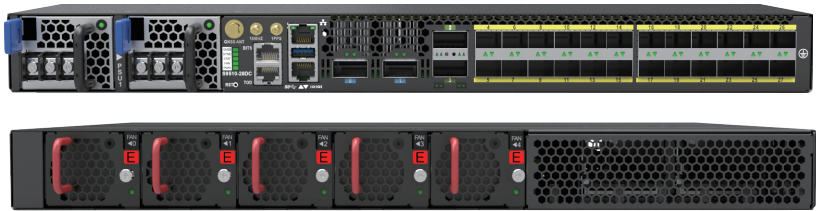| Safety		EMC	
Safety	UL 62368-1 IEC 60950-1 IEC 62368-1 BSMI MTCTE NOM	EMC	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 300 386 EN 301 489 EN 303 413 EN55035, EN 50663, EN 62479 BSMI VCCI CISPR 32, Class A RCM AS/NZS CISPR 32, Class A MTCTE Electric Power Substation IEC 61850-3, IEEE 1613 Railway EN 50121-4 Railway IEC 62236-4 NEBS GR-1089, GR-3108
Environment	NEBS GR-63 NEBS GR-3160 ETSI 300 019 WEEE RoHS		

S9510-28DC

S9510-28DC Front and Back Views

Telecom Networking Solutions

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

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