ufiSpace

Telecom Networking Solutions



S9520-28XC

DISAGGREGATED OPEN ACCESS ROUTER

The UfiSpace S9520-28XC is a high-performance, open networking white box router designed to address evolving backhaul transport requirements as telecoms transition from legacy infrastructure toward 5G. It enables service providers to deploy disaggregated open network architectures, lowering overall operational costs while rapidly scaling edge computing, mobile backhaul, and broadband access services.

The S9520-28XC features 28 high-speed interfaces—comprising 2 x 100G QSFP-DD, 2 x 100G QSFP28, 8 x 50G SFP56, and 16 x 25G SFP28 ports. Powered by the Broadcom Qumran3n ASIC with 4GB external deep buffer, it supports hardware MACsec encryption alongside essential carrier features, including Ethernet OAM, IP/MPLS, Segment Routing, and TSN. The device integrates full timing synchronization capabilities (IEEE 1588v2, SyncE) with GNSS, 1PPS, 10MHz, ToD, and BITS interfaces. Designed for extreme indoor and outdoor deployments, the 1RU chassis includes redundant, hot-swappable power supplies and fan modules for maximum availability and low maintenance costs.



KEY BENEFITS

- Open Networking Compliance: Compatible with open networking standards for highly reliable, disaggregated composable networks.
- 5G Network Ready: Future-proof for 5G mobile backhaul and edge aggregation with ultra-low forwarding latency and high-precision frequency and phase timing synchronizations.
- Temperature Hardened: Environmentally hardened to operate from -40°C to 70°C (-40°F to 158°F), offering maximum deployment flexibility for outside plant cabinets and cell site backhauls.
- Enhanced Edge Security & Deep Buffering: Features integrated hardware-based MACsec encryption for secure link transport and a 4GB external deep buffer to absorb unpredictable traffic bursts in mobile aggregation networks.

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
- Built-in hardware MACsec for line-rate data encryption and secure transmission across backhaul links.
- Support full Segment Routing over IPv6 (SRv6)
- Class C timing accuracy support
- Internal GNSS receiver for master clock implementations
- Support 10G / 25G / 50G / 100G for 5G
- Hot swappable power supplies with 1+1 redundancy support
- Integrated fixed fan system with 3+1 redundancy and front-to-back airflow direction.

SPECIFICATIONS

PHYSICAL

- 2 x 40/100G QSFP-DD ports
- 2 x 40/100G QSFP28 ports
- 8 x 1/10/25/50G SFP56 ports
- 16 x 1/10/25G SFP28 ports
- 1 x 100/1000 RJ-45 OOB management port
- 1 x RJ45 serial console port
- 1 x USB 3.0 Type-A port
- 1 x Micro USB console port

ASIC	Broadcom Qumran3n BCM88405
Processor	Intel® Xeon® D-1715TER 4-Core / 2.4GHz
Memory	8GB DDR4 SO-DIMM with ECC
Storage	40GB NVMe SSD
BMC	Aspeed AST2620
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 G.8275.1, G.8275.2 T-GM, T-BC/OC, T-TC Time Sensitive Networking (TSN)
Chassis (WxDxH)	1 RU, 440 x 240 x 43.5mm or 17.32" x 9.44" x 1.71" Weight: 6.68 kg or 14.72 lb (without FRU)
Redundancy	Hot swappable, 1+1 redundant PSU Fixed , 3+1 redundant Fans

ENVIRONMENTAL

Power Supply	AC input: 90 to 230V, 6A DC input: -36 to -75V, 16A Typical power: 100 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: -40°C to 70°C (-40°F to 158°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	400 Gbps
Deep Buffer	4 GB

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 62368-1	**EMC**	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 300 386, EN 300 386 EN55035, EN 301 489, EN 303 413 VCCI CISPR 32, Class A
Environment	WEEE		

Specifications are subject to change without notice
Contact our sales team for current configuration options.

S9520-28XC

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S9520-28XC Front and Back Views



SUPPORTED ACCESSORIES

Compatible Transceivers Types

100GE QSFP28 ZR4, 100GE QSFP28 ER4, 100GE QSFP28 SR4, 100GE QSFP28 LR4,
50GE SFP56 SR, 50GE SFP56 LR, 50GE SFP56 ER, 25GE SFP28 SR, 25GE SFP28 LR, 25GE SFP28 ER,
10GE SFP+ SR, 10GE SFP+ LR, 10GE SFP+ ER, 1GE SFP SX, 1GE SFP LX

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

Fan Types
FAN-402837-HD, exhaust air flow

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