S9500-30XS

DISAGGREGATED CELL SITE GATEWAY ROUTER

The UfiSpace S9500-30XS is the first open design cell site gateway router that enables service providers to deploy Open and Disaggregated Transport Network (ODTN) services. The S9500-30XS cell site gateway router conforms to the Open Compute Project (OCP) Cell Site Gateway Router and Telecom Infra Project (TIP) DCSG specifications.

With temperature-hardened, high port density, high-throughput, and small form factor features, the S9500-30XS gateway router is designed for both outdoor and indoor deployments, supporting 4G and 5G base stations with full IEEE 1588v2 and SyncE timing functions and providing backhaul uplinks of 25G and 100G.

The UfiSpace S9500-30XS enables carrier 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.

KEY BENEFITS

- OCP Accepted and TIP Compliant.

- Temperature hardened router meeting TP76200 requirements designed for operation in GR-3108 Class 2 OSP (Outside Plant) cabinets (NEBS Level 3) for cell site backhauls.

- Ultra-low forwarding latency, high precision frequency and phase timing synchronization supporting the inputs and outputs needed to accommodate the evolving requirements of 5G.

- High port density applications with versatile 1/10/25/100 Gbps through optimum heat dissipation and electromagnetic shielding.

- WAN and long haul markets, designed for long-reach, up to 120 km applications with MACsec feature.

- Open NOS applications for highly reliable composable networks.

KEY FEATURES

- Supports full SyncE and IEEE 1558v2 (T-GM, T-BC, T-TC, and T-TSC)

- Integrated Stratum 3E OCXO with optional hold over performances

- Internal GNSS receiver for master clock implementations

- Rich timing interfaces: ToD, BITS, 1PPS and 10MHz

- Supports 100M/1G for legacy and 10G/25G for 5G

- Supports backhaul data rates up to 100 Gbps with MACsec support

- 3GB deep buffering and Intel® 1.5 GHz quad core CPU for network operation

- Individual BMC allowing automatic and remote operations for monitoring and managing platform health status

- 1 RU small form factor with 300mm depth

- Hot swappable power supplies with 1+1 redundancy support

- Hot swappable fan modules with 4+1 redundancy support

SPECIFICATIONS

PHYSICAL

- 2 x 40/100G QSFP28 ports
- 8 x 1/10/25G SFP28 ports
- 20 x 100M/1/10G SFP+ ports
- 1 x RJ45 & Micro USB serial console ports
- 1 x 100/1000M RJ45 management port
- 1 x USB 2.0 Type-A port

Processor	Intel Broadwell-DE 4-Core @ 1.5GHz
Memory*	8GB DDR4 (Standard) 16GB DDR4 (Premium)
Storage*	32GB SSD (Standard) 128GB SSD (Premium)
ASIC	Broadcom Qumran-AX BCM88470
BMC	AST2400
Timing Interfaces	1 x GNSS input SMA 1 x 1PPS input/output SMA 1 x 10MHz input/output SMA 1 x ToD input 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 43.5 mm or 17.32" x 11.89" x 1.713" Weight: 4.76kg or 10.49lbs
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 4+1 redundant Fans

*S9500-30XS 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: 153.8 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: -40℃ to 65℃ (-40°F to 149°F) Operating humidity: 5% to 85% (RH), non-condensing
Max. Non-Operating Specs.	Storage temperature: -40℃ to 70℃ (-40°F to 158°F) Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

Switching Capacity	300 Gbps
Deep Buffer	3GB

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 60950-1 IEC 62368-1 BSMI	EMC	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 55024 EN 55035 EN 62479 EN 50663 EN 300 386 EN 301 489 EN 303 413 BSMI VCCI CISPR 32, Class A Anatel NEBS GR-1089, GR-3108
Environment	WEEE RoHS NEBS GR-63		

Specifications are subject to change without notice.

S9500-30XS

Telecom Networking Solutions

S9500-30XS Front and Back Views

ACCESSORIES

Compatible Transceiver Types
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, 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, 1PPS, and 10MHz
Shield cable with RJ45 for ToD
Shield cable with RJ48 for BITS

Available to Order
Power Supply Types
PSU-401-DISB, 400W DC PSU, intake air flow
PSU-401-AISB, 400W AC PSU, intake air flow

Fan Types
FAN-402825-HD, exhaust air flow

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