

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 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 at 25GbE and 100GbE.

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 FEATURES

- Supports full SyncE and IEEE 1588v2 (T-GM, T-BC, T-TC, and T-TSC)
- Integrated Stratum 3E OXCO with optional hold over performances
- Integrated GNSS receiver with passive or active antenna support
- 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
- 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

KEY BENEFITS

- COCP 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.



SPECIFICATIONS

PHYSICAL

- ◆ 2 x 100GE QSFP28 ports
- ◆ 8 x 25GE SFP28 ports
- ◆ 20 x 10GE SFP+ ports
- ◆ 1 x RJ45 + Micro USB console/management ports
- ◆ 1 x 1000 Base-T Ethernet port for OOB
- ◆ 1 x USB 2.0 Type-A general purpose port

Processor Intel Broadwell-DE D1519 4 Cores @1.5GHz

Memory 2 x 8GB DDR4 SO-DIMM with ECC

Storage 1 x 128GB M.2 SSD

ASIC Broadcom Qumran-AX BCM88470

Timing 1 x GNSS input

Interfaces 1 x 1PPS input/output
1 x 10MHz input/output
1 x ToD input/output
1 x BITS input

Hardware ITU-T Synchronous Ethernet (SyncE)
Timing IEEE 1588v2 (Default, G.8265.1, G.8275.1, G.8275.2,
Capabilities 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"
Net weight: 6.6 kg. or 14.55 lbs.

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

ENVIRONMENTAL

Power Supply AC input: 100 ~ 240V, 6 ~ 3A, 50 ~ 60Hz
DC input: -36 ~ -75V, 16 ~ 8A
Max power: 400 Watts

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 300 Gbps

REGULATORY COMPLIANCE

Safety NEBS Level 3
UL 62368-1
IEC/EN 60950-1
IEC/EN 62368-1
BSMI CNS 14336-1

EMC NEBS Level 3
FCC Part 15, Subpart B, Class A
EN55032, Class A
EN300 386
EN55024
EN301 489-1
EN301 489-19
EN303413
BSMI (CNS 13438), Class A
VCCI-CISPR 32:2016, Class A
VCCI 32-1:2016, Class A

Specifications are subject to change without notice.

S9500-30XS

Telecom
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S9500-30XS Front and Back Views



SUPPORTED ACCESSORIES

Transceivers

100GBASE SR4 QSFP28, 100GBASE CWDM4 QSFP28, 100GBASE LR4 QSFP28,
100GBASE ER4 QSFP28, 25GBASE SR SFP28, 25GBASE LR SFP28, 10GBASE SR SFP+,
10GBASE LR SFP+, 10GBASE ER SFP+, 10GBASE ZR SFP+, 1GBASE-T, 1GBASE SX SFP,
1GBASE LX SFP, 1GBASE EX SFP, 1GBASE ZX SFP

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

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

