

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 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 backhails.
- ▶ 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 80 km applications with MACSec feature.
- ▶ Open NOS applications for highly reliable composable networks.

Key Features

- ▶ 1 RU compact design with 300mm depth suitable for standard 19" racks.
- ▶ Supports 100M/1G for legacy BBU, 10G/25G for 5G BBU.
- ▶ Supports backhaul data rates up to 100 Gbps.
- ▶ 3GB deep buffering and Intel® 1.5 GHz quad core CPU for network operation.
- ▶ Individual baseboard management controller (BMC) operation for monitoring and recovery of platform health status.
- ▶ 2 hot swappable power supplies with 1+1 redundancy support.
- ▶ 5 hot swappable fan modules with 4+1 redundancy support.
- ▶ Integrated Stratum 3E OXCO with optional hold over performances.
- ▶ Integrated GNSS receiver with passive or active antenna support.
- ▶ Rich timing input/output interfaces: ToD, BITS, SMA 1PPS and 10MHz.



Specifications

Physical

- Full featured, compact Cell Site Gateway Router
- 1 RJ45 + Micro USB console/management ports
- 1 1000 Base-T Ethernet port for Out-of-Band management
- 1 USB 2.0 Type-A general purpose port
- GNSS, 1PPS, 10M, ToD, and BITS timing ports

Processor Intel® Broadwell-DE D-1519 1.5G 4-Core

Memory DDR4 SODIMM 16GB with ECC support

Storage M.2 SSD 128GB

ASIC Broadcom BCM88470 (Qumran-AX)

Built-in Interfaces Total 10 GE SFP+: 20
Total 25 GE SFP28: 8
Total 100 GE QSFP28: 2

LED Power, system, link & activity, GNSS, synchronization, fan & PSU status

Chassis 1 RU, 440w x 43.5h x 302d mm (17.32" x 1.713" x 11.89")
Net weight: 6.6 kg (14.55 lbs)

Redundancy 1+1 hot swappable power units
4+1 hot swappable fan units

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 93% (RH), non-condensing

Performance

Switching Capacity 300 Gbps

Packet Throughput 300 Mpps

Regulatory Compliance

Safety NEBS Level3
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

All product specifications are subject to change without notice



S9500-30XS Views



Supported Accessories

Transceivers 100G SR4 QSFP28, 100GBASE CWD4 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

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