



Specializing in 5G Time Sensitive Networking applications, the S9600-32X complies to the IEEE 802.1CM and addressing the demand of a high precision and low latency fronthaul transport. Our open aggregation router is compatible with high accuracy fronthaul synchronization and timing requirements (802.1CM-2018 category A, ITU-T G.8273.2 T-BC, Class C) to ensure error free operation of 5G and cooperative radio techniques.



KEY BENEFITS

- Enable Time Sensitive Networking (TSN) and Class C timing for 5G services
- Ultra-low forwarding latency, high precision frequency and phase timing synchronization supporting the evolving requirements of 5G
- Integrated traffic manager and packet processor
- Simplify inventory and reduce opex using the same model accross multiple applications throughout the network
- Open NOS applications for highly reliable composable networks

KEY FEATURES

- High density, 32x100G ports with 4 x 25G breakout ports
- 2.4Tbps switching capacity
- 4GB Deep buffer
- Intel Skylake 8-Core, 1.9GHz CPU
- Supports full SyncE and IEEE 1588v2
- Rich timing interfaces: GNSS, 1PPS, 10MHz, TOD
- Integrated Stratum 3E OCXO
- Class C timing accuracy
- Internal GNSS receiver for master clock implementations
- Redundant and hot swappable power and fan modules
- Designed for quick and easy installation onto 19" server racks

SPECIFICATIONS

PHYSICAL

32 x 40/100G QSFP28 ports

4 x 1/10/25G SFP28 ports
 (In-band port share with 100GE Port 0)

• 1 x RJ45 serial console port

• 1 x Micro USB serial console port

1 x 100/1000M RJ45 management port

• 1 x USB 3.0 Type-A port

Processor Intel Skylake-D 8-Core @ 1.9GHz

Memory 32GB DDR4 Storage 128GB SSD

ASIC Broadcom Qumran2c BCM88820

BMC AST2400

Timing 1 x GNSS input SMA
Interfaces 1 x 1PPS input/output SMB
1 x 10MHz input/output SMB

1 x 10MHz input/output SMI 1 x ToD input/output RJ45

Timing Stratum 3E OCXO

Support ITU-T Synchronous Ethernet (SyncE)

IEEE 1588v2 (Default, G.8265.1, G.8275.1, G.8275.2),

T-TC, T-BC/OC, T-GM

Time Sensitive Networking (TSN)

Chassis 2RU, 436 x 762 x 87.7 mm (WxDxH) or 17.17" x 30" x 3.45" Weight: 17.73kg or 39.09lb

Redundancy Hot swappable, 1+1 redundant PSUs

Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Specs. AC input: 100 to 240V, 13A

DC input: -40 to -72V, 50A

Typical power: 335 Watts (no transceiver)

Max. Operating Operating temperature: 0°C to 45°C (32°F to 113°F)

Specs. Operating humidity: 5% to 85% (RH), non-condensing

Max. Non-Operating Storage temperature: -40°C to 70°C (-40°F to 158°F) Specs. Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

Switching Capacity 2.4Tbps

Deep Buffer 4GB

REGULATORY COMPLIANCE

Safety Environment	UL 62368-1 IEC 62368-1 IEC 60950-1 BSMI WEEE ROHS ETSI 300 132-2 ETSI 300 019	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
			BSMI VCCI CISPR 32, Class A

Specifications are subject to change without notice.

S9600-32X

S9600-32X Front and Back Views





ACCESSORIES

Compatible Transceiver Types

100G QSFP28 SR4, 100G QSFP28 LR4, 100G QSFP28 ER4, 100G QSFP28 ZR4, 25G SFP28 SR, 25G SFP28 LR, 25G SFP28 ER, 10G SFP+ SR, 10G SFP+ LR, 10G SFP+ ER

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

Available to Order

Power Supply Types

PSU-162-DESR, 1600W DC, exhaust air flow PSU-162-AESR, 1600W AC, exhaust air flow

Fan Types

FAN-803816-HI, exhaust air flow



Solutions

Networking

Telecom