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Telecom Networking Solutions

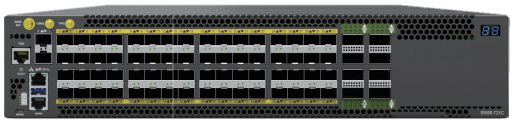
S9600-72XC

Open Aggregation Router

The S9600-72XC open aggregation router, is a multi-function, disaggregated white box aggregation routing platform with an external TCAM. It is equipped with Broadcom's Qumran2c merchant silicon chip and an Intel Skylake processor featuring 64x25G and 8x100G high speed ports with a switching capacity of up to 2.4Tbps.

The S9600-72XC can be deployed at C-RAN hubs to provide 5G fronthaul transport aggregation or be positioned at the backhaul for aggregating BBU pooling. It can also be programmed to be a Broadband Network Gateway (BNG) to enable the next generation broadband network. Equipped with high port density, Class C timing and fully supporting SyncE and IEEE 1588v2, our S9600-72XC is capable of fulfilling the role of any type of network aggregation.

Specializing in 5G Time Sensitive Networking applications, the S9600-72XC complies to the IEEE 802.1CM and can act as an Edge Grandmaster (GM) clock. Our open aggregation router is compatible with high accuracy fronthaul synchronization and timing requirements (ITU-T G.8273.2 T-BC, Class C) to ensure error free operation of 5G and cooperative radio techniques.



KEY BENEFITS

- Highly reliable, non-blocking switching capacity
- Enable Time Sensitive Networking for 5G compatibility
- Integrate open NOS applications for highly reliable composable networks
- Futureproof to meet evolving requirements of 5G with ultra-low latency, high precision frequency and phase timing synchronization support
- Quick and easy installation onto standard 19" server racks
- Streamline maintenance with redundant and hot swappable power and fan modules

KEY FEATURES

- High density, 64x25G ports with additional 8x100G ports
- 2.4Tbps switching capacity with an 8-Core, 1.9GHz processor
- 4GB Packet buffer
- Class C timing accuracy support
- Fully supports SyncE and IEEE 1588v2 timing synchronization profiles
- Integrated Stratum 3E OCXO with optional hold over performances
- Internal GNSS receiver for master clock implementations
- Support full Segment Routing over IPv6 (SRv6)
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 3+1 redundancy support

SPECIFICATIONS

PHYSICAL

- 8 x 40/100G QSFP28 ports
- 64 x 1/10/25G SFP28 ports
- 2 x 10G SFP+ management ports
- 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 (Up to 64GB)
Storage	128GB SSD
ASIC	Broadcom Qumran2c BCM88820 Broadcom OP2 BCM16K (Premium)
BMC	AST2400
Timing Interfaces	1 x GNSS input SMA 1 x 10MHz input/output SMB 1 x 1PPS input/output SMB 1 x ToD input/output RJ45
Timing Support*	Stratum 3E OCXO ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 - Default, G.8265.1 G.8275.1, G.8275.2, SMPTE ST 2059-2**, T-GM, T-BC/OC, T-TC Time Sensitive Networking (TSN)
Chassis (WxDxH)	2 RU, 436 x 609.6 x 87.7 mm or 17.17" x 24" x 3.45" Weight: 15.19kg or 33.49lb (without FRU)
Redundancy	Hot-swappable, 1+1 redundant PSU Hot-swappable, 3+1 redundant Fans

*NOS integration is necessary to activate the specific feature.

**Additional license is required

ENVIRONMENTAL

Power Specs.	AC input: 100 to 240V, 12A DC input: -40 to -75V, 40A Typical power: 328 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: 0°C to 45°C (32°F to 113°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	2.4Tbps
Deep Buffer	4GB

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 60950-1 IEC 62368-1 BSMI MTCTE
Environment	WEEE RoHS ETSI 300 019 ETSI 300 132-2 NEBS GR-63
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 MTCTE VCCI CISPR 32, Class A NEBS GR-1089, GR-3108

OP2 available for premium SKU only.
Specifications are subject to change without notice.
Contact our sales team for current configuration options.

S9600-72XC

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S9600-72XC Front and Rear Views

ACCESSORIES

Compatible Transceivers 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, 1G SFP SX, 1G SFP LX, 1G SFP EX

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-132-DESR, 1300W DC, exhaust air flow
PSU-132-AESR, 1300W AC, exhaust air flow

Fan Types

FAN-803816-HI, exhaust air flow

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