

S9600-102XC

Open Aggregation Router

The S9600-102XC open aggregation router, is a multi-function, white box routing platform with an external TCAM. It is equipped with Broadcom's Qumran2c merchant silicon chip and an Intel Skylake processor featuring 96x25G, 6x100G high speed ports with a switching capacity of up to 2.4Tbps.

The S9600-102XC 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 S9600-102XC is capable of fulfilling the role of any type of network aggregation.

Specializing in 5G Time Sensitive Networking applications, the S9600-102XC 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

- 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, 96x25G ports with additional 6x100G 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 OXCO 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

♦ 6 x 40/100G QSFP28 ports	
♦ 96 x 1/10/25G SFP28 ports	
♦ 2 x 10G SFP+ management ports	
♦ 1 x RJ45 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	32G DDR4
Storage	128GB SSD
ASIC	Broadcom Qumran2c BCM88820 Broadcom OP2 BCM16K
BMC	AST2620
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 x 87.7 mm or 17.17" x 23.97" 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

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ENVIRONMENTAL

Power Specs.	AC input: 100 to 240V, 12A DC input: -40 to -75V, 40A Typical power: 379 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: 0°C to 45°C (113°F to 122°F) Operating humidity: 5% to 85% (RH), non-condensing
Max. Non-Operating Specs.	Storage temperature: -40°C to 70°C (-40°F to 122°F) Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

Switching Capacity	2.4Tbps
Deep Buffer	4GB

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 62368-1	EMC	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 55035 EN 300 386 EN 301 489 EN 303 413
Environment	WEEE ETSI 300 019 ETSI 300 132-2		

Specifications are subject to change without notice.
Contact our sales team for current configuration options.

S9600-102XC 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

