

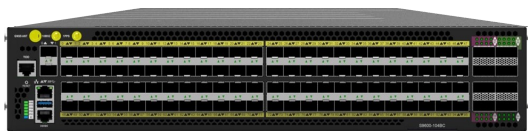
# S9601-104BC

## Open Aggregation Router

The S9601-104BC 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 Denverton processor featuring 96x25G, 4x100G and 4x200G high speed ports with a switching capacity of up to 2.4Tbps.

The S9601-104BC 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 S9601-104BC is capable of fulfilling the role of any type of network aggregation.

Specializing in 5G Time Sensitive Networking applications, the S9601-104BC 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, high performance routing platform
- 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 4x100G and 4x 200G ports
- 2.4Tbps switching capacity with an 8-Core, 1.7GHz processor
- 4GB Packet buffer
- Hardware supports full SyncE and IEEE 1588v2
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing accuracy
- Internal GNSS receiver for master clock implementations
- Rich timing interfaces: GNSS, 10MHz, 1PPS and ToD

# SPECIFICATIONS

## PHYSICAL

◆ 4 x 40/100/200G QSFP56 ports	
◆ 4 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 Denverton 8-Core @ 1.7GHz
Memory	32GB DDR4
Storage	128GB SSD
ASIC	Broadcom Qumran2c BCM88820 Broadcom OP2 BCM16K
BMC	AST2620
Timing	1 x GNSS input SMA
Interfaces	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, 440 x 440 x 87.7 mm or 17.32" x 17.32" x 3.45"
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

S9601-104BC

Telecom  
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Solutions

## ENVIRONMENTAL

Power Specs.	AC input: 100 to 240V, 12A DC input: -48 to -60V, 37A Typical power: 282.2 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: 0°C to 50°C (32°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	EMC
Environment	

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

S9601-104BC Front and Rear Views



## ACCESSORIES

**Compatible Transceivers Types**  
200G QSFP56 SR4, 200G QSFP56 FR4, 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-DEGR-NN, 1300W DC, exhaust air flow  
PSU-132-AEAR-NN, 1300W AC, exhaust air flow

**FAN Types**  
FAN-803816-HI, exhaust air flow

