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 option. It is equipped with Broadcom's Qumran2c merchant silicon chip and an Intel Skylake processor featuring 64x25GE and 8x100GE high speed ports with a switching capacity of up to 2.4Tbs.

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 Grand Master (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 FEATURES

- High density, 64x25GE ports with additional 8x100GE ports
- 2.4Tbps switching capacity with an 8 Core, 1.9GHz processor
- 4GB Packet buffer
- Hardware supports full SyncE and IEEE 1588v2
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing accuracy support
- Integrated GNSS receiver with passive or active antenna support
- Rich timing interfaces 10MHz, 1PPS and ToD

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

SPECIFICATIONS

PHYSICAL

- 64 x 1/10/25GE SFP28 ports
- 8 x 40/100GE QSFP28 ports
- 2 x 10GBase SFP+ management ports
- 1 x RJ45 serial console port
- 1 x Micro USB serial console port
- 1 x 1000Base-T Ethernet port for OOB management
- 1 x USB 3.0 Type-A general purpose port

Processor	Intel Skylake-D D-2145NT 8 Core, 1.9GHz
Memory	32GB DDR4 R-DIMM with ECC
Storage	128GB SSD
ASIC	Broadcom Qumran2c BCM88820 (with HBM) Broadcom OP2 BCM16K
BMC	Aspeed AST2400
Timing Interfaces	1 x GNSS input SMA 1 x 10MHz input/output SMB 1 x 1PPS input/output SMB 1 x ToD input RJ45
Hardware Timing Capabilities	Stratum 3E OCXO ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 (Default Profile, G.8265.1 G8275.1, G.8275.2 profiles), T-TC, T-BC/OC, T-GM
Chassis (WxDxH)	2 RU, 436 x 609.6 x 87.7 mm or 17.17" x 24" x 3.45" Net weight: 17.85Kg. or 39.35lbs.
Redundancy	Hot-swappable, 1+1 Redundant PSU Hot-swappable, 3+1 Redundant fans

ENVIRONMENTAL

Power Supply	AC input: 200 ~ 240V DC input: -40 to -75V Typical power: 312 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: 0°C to 45°C (32°F to 113°F) Operating humidity: 5% to 85% (RH), noncondensing
Max. Non-Operating Specs.	Storage temperature: –40°C to 70°C (–40°F to 158°F) Storage humidity: 5% to 95% (RH), non-condensing

PERFORMANCE

Switching Capacity	2.4Tbps
Packet Buffer	4GB

REGULATORY COMPLIANCE

Safety		EMC	
	UL 62368-1 IEC/EN 60950-1 IEC/EN 62368-1 BSMI CNS 14336-1		FCC Part 15, Subpart B, Class A EN55032, Class A EN300 386 EN55024 EN55035 BSMI (CNS 13438), Class A

Specifications are subject to change without notice.

S9600-72XC

Telecom Networking Solutions

S9600-72XC Front and Rear Views

SUPPORTED ACCESSORIES

Transceivers
100GBASE QSFP28 SR4, 100GBASE QSFP28 LR4, 100GBASE QSFP28 ER4, 100GBASE QSFP28 ZR4,
25GBASE SFP28 SR, 25GBASE SFP28 LR, 25GBASE SFP28 ER, 25GBASE SFP28 ZR, 10GBASE SFP+ SR,
10GBASE SFP+ LR, 10GBASE SFP+ ER, 1GBASE SFP SX, 1GBASE SFP LX, 1GBASE SFP EX

Power Supply Types
1300W DC, exhaust air, slim type, red color latch
1300W AC, exhaust air, slim type, red color latch

Fan Types
Front to back airflow, red color latch

Rack mounting kit
Adjustable mounting rail for 19" rack supporting
depth from 26" to 30"