

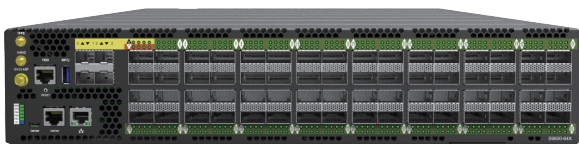
S9600-64X

Open Aggregation Router

The S9600-64X open aggregation router is a multi-function, disaggregated white box aggregation routing platform. It is equipped with Broadcom Qumran2c merchant silicon chips and an Intel Skylake processor featuring 64 high speed 100GE ports with a switching capacity of up to 4.8Tbs.

The S9600-64X 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 S9600-64X is capable of fulfilling the role of any type of network aggregation.

Specializing in 5G Time Sensitive Networking applications, the S9600-64X 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 across multiple applications throughout the network
- Open NOS applications for highly reliable composable networks

KEY FEATURES

- High density, 64x100GE ports with 4 x 25G breakout ports
- 4.8 Tbps switching capacity
- 8GB Deep buffer
- Intel Skylake 8 Core, 1.9GHz CPU
- Supports full SyncE and IEEE 1588v2
- Rich timing interfaces (1PPS, 10MHz, TOD)
- Integrated Stratum 3E OCXO
- Class C timing accuracy
- Integrated GNSS receiver with passive or active antenna support
- Redundant and hot swappable power and fan modules
- Designed for quick and easy installation onto 19" server racks

SPECIFICATIONS

PHYSICAL

- ◆ 64 x 40GE/100GE QSFP28 ports
- ◆ 4 x 1GE/10GE/25GE 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 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 with ECC (64GB optional)

Storage 128GB SSD (256GB optional)

ASIC Broadcom BCM88820 (Q2C)

BMC Aspeed AST2400

Timing
Interfaces 1 x GNSS input
1 x 1PPS input/output
1 x 10MHz input/output
1 x ToD input

Hardware ITU-T Synchronous Ethernet (SyncE)
Timing IEEE 1588v2 (Default, G.8265.1, G.8275.1, G.8275.2,
Capabilities T-TC, T-BC/OC, T-GM)

Chassis
(WxDxH) 2RU, 436 x 762 x 87.8 mm
or 17.17" x 30" x 3.46"
Net weight: 21.1 Kg. or 46.5 lbs.

Redundancy Hot swappable, 1+1 redundant PSUs
Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Supply AC input: 200 ~ 240V,
DC input: -40 ~ -75V,
Typical power: 510 Watts (no transceiver)

Max. Operating Specs. Operating temperature: 0°C to 45°C (32°F to 113°F)
Operating humidity: 15% to 93% (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 4.8Tbps

Deep Buffer 8GB

REGULATORY COMPLIANCE

Safety	UL 62368-1	EMC	FCC Part 15, Subpart B,
	IEC 60950-1		Class A
	IEC/EN 62368-1		EN55032, Class A
			EN300 386
			EN55024
			EN55035
			EN301489

Specifications are subject to change without notice.

S9600-64X

Telecom
Networking
Solutions

S9600-64X Front and Back Views



SUPPORTED ACCESSORIES

Transceivers

100GE QSFP28 SR4, 100GE QSFP28 LR4, 100GE QSFP28 ER4, 25GE SFP28 SR, 25GE SFP28 LR, 25GE SFP28 ER

Cable Types

100GE QSFP28 DAC (Direct Attach Cable)
100GE QSFP28 ACC (Active Copper Cable)
100GE QSFP28 AOC (Active Optical Cable)

Power Supply Types

PSU-162-DESR, 1600W DC, exhaust air, slim type, colored latch
PSU-162-AESR, 1600W AC, exhaust air, slim type, colored latch

Fan Types

FAN-803816-HC, exhaust air flow

Rack mounting kit

R19-970000-2630 adjustable mounting rail for 19" rack supporting depth from 26" to 30"

