



The S9600-28DX can be deployed at C-RAN hubs to provide 5G fronthaul transport aggregation, positioned at the backhual for aggregating BBU pools, or be programmed to be a Broadband Network Gateway (BNG) to enable next generation broadband network. Supporting OpenZR+ makes it an ideal solution for metro aggregation.

Specializing in 5G time-critical applications, the S9600-28DX can act as an Edge Grandmaster (T-GM) or Boundary Clock (T-BC). Our open aggregation router is compatible with high accuracy fronthaul synchronization and timing requirements 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 the evolving requirements of 5G with ultra-low latency, high precision frequency and phase timing synchronization support
- Suitable for WAN and long-haul applications, supports OpenZR+ for metro and regional aggregation
- Streamline maintenance with redundant and hot swappable power and fan modules

KEY FEATURES

- High density, 24x100GE ports with additional 4x400GE ports
- 2.4Tbps switching capacity with an 8-Core, 2.1GHz processor
- 4GB Deep Buffer
- Fully supports SyncE and IEEE 1588v2 timing synchronization profiles
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing accuracy
- Integrated GNSS receiver with passive or active antenna support
- Rich timing interfaces: GNSS, 10MHz, 1PPS and ToD

SPECIFICATIONS

PHYSICAL

4 x 40/100/400G QSFP-DD ports with 400ZR and OpenZR+ support

24 x 40/100G QSFP28 ports

• 4 x 1/10/25G SFP28 (MUX configurable from Port-0 100G)

• 1 x RJ45 & Micro USB serial console ports

1 x 100/1000M RJ45 management port

1 x USB 3.0 Type-A port

Processor	Intel Icelake-D 8-Core @ 2.1GHz
Memory	32GB DDR4
Storage	128GB SSD
ASIC	Broadcom Qumran2c BCM88820
ВМС	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 G8275.1, G.8275.2), T-TC, T-BC/OC, T-GM Time Sensitive Networking (TSN)
Chassis (WxDxH)	2RU, 436 x 762 x 87.7 mm or 17.17" x 30" x 3.45" Weight: 17.7kg or 39.02lb
Redundancy	Hot swappable, 1+1 redundant PSU

Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Specs. AC input: 100 to 240V, 12A

DC input: -40 to -75V, 40A

Typical power: 324 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

IEC/UL 60950-1

Safety IEC/UL 62368-1

EMC

FCC Part 15, Subpart B, Class A

Environment WEEE

Specifications are subject to change without notice.

S9600-28DX

S9600-28DX Front and Back Views





SUPPORTED ACCESSORIES

Transceiver Types

400G QSFP-DD SR, 400G QSFP-DD LR, 400G QSFP-DD ER, 400G QSFP-DD ZR, 400G QSFP-DD OpenZR+, 100G QSFP28 SR, 100G QSFP28 LR, 100G QSFP28 ER, 100G QSFP28 ZR, 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

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

Power Supply Types

1300W DC, exhaust air flow 1300W AC, exhaust air flow

Fan Types

Exhaust air flow



Solutions

Networking

Telecom