

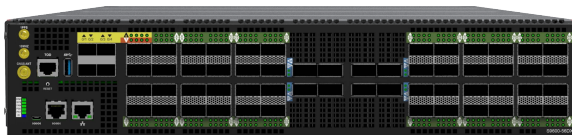
S9600-56DX

Open Aggregation Router

The S9600-56DX is a multi-function, white box open aggregation router. It is equipped with Broadcom's Qumran2c merchant silicon with Intel's Icelake processor. The platform features 48x100G and 8x400G high speed ports with a switching capacity of up to 4.8Tbps.

The S9600-56DX can be deployed at C-RAN hubs to provide 5G fronthaul transport aggregation, positioned at the backhaul 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 S9600-56DX 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

- 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, 48x100G ports with additional 8x400G ports
- 4.8Tbps switching capacity with an 8-Core, 2.1GHz processor
- 8GB Deep Buffer
- Fully supports SyncE and IEEE 1588v2 timing synchronization profiles
- 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

- 8 x 40/100/200/400G QSFP-DD ports with 400G ZR/ZR+ support
- 48 x 40/100G QSFP28 ports
- 4 x 1/10/25G SFP28 (In-band port share with 100GE Port 0)
- 1 x RJ45 & Micro USB serial console ports
- 1 x 100/1000M RJ45 management port
- 1 x USB 3.0 Type-A port

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|------------|--|
| Processor | Intel Icelake-D 8-Core @ 2.1GHz |
| Memory | 32GB DDR4 |
| Storage | 128GB SSD |
| ASIC | Broadcom Qumran2c BCM88820 |
| 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 |

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|----------------|--|
| 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) | 2RU, 436 x 762 x 87.7 mm or 17.17" x 30" x 3.45" Weight: 19.26kg or 42.46lb (without FRU) |
|-----------------|---|

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|------------|---|
| Redundancy | Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans |
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*NOS integration is necessary to activate the specific feature.
**Additional license is required

S9600-56DX

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ENVIRONMENTAL

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|---------------------------|--|
| Power Specs. | AC input: 200 to 240V, 12.5A DC input: -40 to -72V, 60A Typical power: 481 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

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|--------------------|---------|
| Switching Capacity | 4.8Tbps |
| Deep Buffer | 8GB |

REGULATORY COMPLIANCE

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|-------------|---------------------------|-----|---|
| Safety | UL 62368-1 IEC 62368-1 | EMC | FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 300 386 EN 55035 EN 301 489 EN 303 413 EN 62479 EN 50663 |
| Environment | RoHS WEEE | | |

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

S9600-56DX Front and Back Views



ACCESSORIES

- Compatible Transceiver Types
400G QSFP-DD SR, 400G QSFP-DD LR, 400G QSFP-DD ER, 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
- 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-202-DESR, 2000W DC, exhaust air flow
PSU-202-AESR, 2000W AC, exhaust air flow
Fan Types
FAN-803816-HI, exhaust air flow

