ufiSpace

Telecom Networking Solutions

S9610-48DX

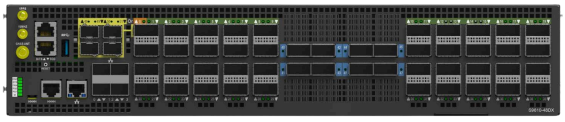
Open Aggregation Router

Premium Version

The S9610-48DX open aggregation router, is a multi-function, white box routing platform. It is equipped with Broadcom's Qumran2c+ merchant silicon chip, an Intel® Xeon® D processor, and features 40x100G and 8x400G high speed ports with a switching capacity of up to 7.2Tbps.

The S9610-48DX can be deployed at aggregation hubs to provide fixed and mobile transport aggregation. It can also be programmed to be a Broadband Network Gateway (BNG) to enable the next generation broadband network. In addition, with a high port density, Class C timing and fully supporting SyncE and IEEE 1588v2, our S9610-48DX is capable of fulfilling the role of any type of mobile network aggregation.

Our S9610-48DX open aggregation router is also capable of converging IP/Optical networks. It is compatible with 400G ZR/ZR+ transceivers from multiple vendors to enable long distance optical transmissions while simplifying the optical transport network infrastructure.



KEY BENEFITS

- Highly reliable, non-blocking switching capacity
- Streamline fixed and mobile networks into a converged network
- Integrate open NOS applications for highly reliable and flexible 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
- User friendly maintenance design with redundant and hot swappable power and fan modules

KEY FEATURES

- High-density 40x100G interfaces for large-volume traffic aggregation
- 8x 400G interfaces with OpenZR+ support
- 7.2Tbps switching capacity with a high performance 12-Core, 1.8 GHz processor
- 8GB Deep buffer
- Class C timing accuracy support
- Fully supports SyncE and IEEE 1588v2 timing synchronization profiles
- Integrated Stratum 3E OCXO with optional hold over performances
- Support full Segment Routing over IPv6 (SRv6)
- MACsec supports on all ports
- TCAM option available to meet diverse deployment requirements

SPECIFICATIONS

PHYSICAL

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

Processor	Intel Icelake-D 12-Core @ 1.8GHz
Memory	64G DDR4
Storage	2 x 256G SSD
ASIC	Broadcom Qumran2c+ BCM88840
BMC	AST2620
Interfaces Timing	1 x GNSS input SMA 1 x 10MHz input/output SMB 1 x 1PPS input/output SMB 1 x ToD input/output RJ45 1 x BITS input/output RJ48
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
Chassis (WxDxH)	2 RU, 436 x 762 x 87.7 mm or 17.17" x 30" x 3.45" Weight: 22.64kg or 49.91lb (without FRU)
Redundancy	Hot-swappable, 1+1 redundant PSU Hot-swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Specs.	AC input: 200 to 240V, 12.5A DC input: -40 to -72V, 60A Typical Power: 548 W (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	7.2Tbps
Deep Buffer	8GB

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 62368-1
Environment	NEBS GR-63 WEEE
EMC	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 300 386 EN 301 489 EN 303 413 EN 55035 EN 62479 EN 50663 VCCI CISPR 32, Class A NEBS GR-1089

*NOS integration is necessary to activate the specific feature.
**Additional license is required

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

S9610-48DX

Telecom Networking Solutions

S9610-48DX Front and Rear Views

ACCESSORIES

Compatible Transceivers 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, 100G QSFP28 OpenZR+, 25G SFP28 SR, 25G SFP28 LR, 10G SFP+ SR, 10G SFP+ LR

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
Shield cable with RJ48 for BITS

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-808012-HCE, exhaust air flow

© 2024 All other marks that may be mentioned herein are the property of their respective owners. References in this publication to branded products, programs, or services do not imply that they will be made available in all countries. Product specifications provided are sample specifications and do not constitute a warranty. Actual specifications for unique part numbers may vary. Please visit our website for additional information on product specifications. Pictures shown may vary from actual products.