

## S9600-30DX

### Open Aggregation Router

The S9600-30DX open aggregation router, is a multi-function, disaggregated white box aggregation routing platform with an external TCAM option. It is equipped with Broadcom's Jericho2 merchant silicon, a selection of Intel processors, features high speed ports that support 400ZR/OpenZR+, and a switching capacity of up to 4.8Tbs.

The S9600-30DX can be deployed at C-RAN hubs to provided RAN vendor agnostic fronthaul transport aggregation or be positioned at the backhaul for aggregating BBU pooling. With 100G and 400G supporting OpenZR+, it provides better usage of bandwidth for metro and regional aggregation. With Class C timing accuracy and fully supporting SyncE and IEEE 1588v2, our S9600-30DX is capable of fulfilling the role of any type of network aggregation.

Specializing in 5G Time Sensitive Networking applications, the S9600-30DX 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 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 speed 100G and 400G ports with support for OpenZR+
- 4.8Tbps switching capacity with an 8 Core, 1.9GHz 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
- Integrated GNSS receiver with passive or active antenna support
- Rich timing interfaces: GNSS, 10MHz, 1PPS, ToD and BITS
- TCAM option to offer additional table sizes
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 3+1 redundancy support

# SPECIFICATIONS

## PHYSICAL

- ◆ 6 x 400G QSFP-DD ports with 400ZR and OpenZR+ support
- ◆ 8 x 100G QSFP-DD ports with OpenZR+ support
- ◆ 16 x 100G QSFP28 ports
- ◆ 1 x RJ-45 & Micro USB serial console ports
- ◆ 2 x 10GBase SFP+ management ports
- ◆ 1 x 1000 Base-T Ethernet port for OOB
- ◆ 1 x USB 2.0 Type-A general purpose port

Processor Intel Skylake-D D-2145NT C3708 8 Cores @1.9GHz

Memory 2 x 16GB (up to 4 x 32GB) DDR4 SO-DIMM with ECC

Storage 1 x 128GB(up to 2 x 128GB) M.2 SSD

ASIC Broadcom Jericho2 BCM88690

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  
 1 x BITS input/output RJ45

Timing Features 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"  
 Net weight: 24.7Kg. or 54.45lbs.

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

## ENVIRONMENTAL

Power Supply Specs. AC input: 100 ~ 240V  
 DC input: -40 ~ -72V  
 Typical power: 464 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 93% (RH), non-condensing

## PERFORMANCE

Switching Capacity 4.8Tbps

Deep Buffer 8GB

## REGULATORY COMPLIANCE

Safety	UL 62368-1	EMC	FCC Part 15, Subpart B, Class A
	IEC 60950-1		ICES-003
	IEC/EN 62368-1		EN 55032, Class A
			EN 300 386
			EN 55024
			EN 55035
			EN 301 489

Specifications are subject to change without notice.

# S9600-30DX

Telecom  
Networking  
Solutions

S9600-30DX Front and Back Views



## SUPPORTED ACCESSORIES

### Transceivers

400G QSFP-DD ZR+, 400G QSFP-DD ZR, 400G QSFP-DD DR4, 400G QSFP-DD FR4, 100G QSFP28 SR4, 100G QSFP-DD ZR+, 100G QSFP-DD ZR, 100G QSFP-DD ER, 100G QSFP-DD LR, 100G QSFP28 LR4, 100G QSFP28 ER4, 100G QSFP28 DR, 100G QSFP28 FR, 100G QSFP28 LR, 100G QSFP28 CWDM4

### Cable Types

400G QSFP-DD DAC (Direct Attach Cable), 400G QSFP-DD AOC(Active Optical Cable), 400G QSFP-DD AEC (Active Electrical Cable), 100G QSFP28 DAC (Direct Attach Cable), 100G QSFP28 AEC (Active Electrical Cable)

### Power Supply Types

FRU 1600W DC, exhaust air, slim type, red colored latch  
 FRU 1600W AC, exhaust air, slim type, red colored latch

### Fan Types

FAN-803816-HC, exhaust air flow

