

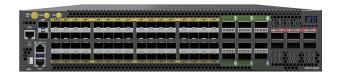
and 2.4Tbps switching capacity. In addition, the S9701-82DC comes with rich timing interfaces (GNSS, 10MHz, 1PPS, and ToD) for modern network applications.

When coupled with the UfiSpace fabric switch (S9705-48D), the S9701-82DC becomes a building block for

a distributed disaggregated chassis (DDC). The DDC allows network service providers to implement a pay-as-you-grow model when scaling core network capacities with a S9701-82DC cluster scaling up to 134Tbps.

# **KEY BENEFITS**

- Flexible capacity growth using horizontal scaling, pay-as-you-grow model
- Accelerated table lookup, packet buffering, and control memory with low latency high bandwidth memory
- Flexible and programmable packets processor
- High density ports with low power consumption
- Enable more highly scalable and flexible Core, Edge, and Central Office infrastructure
- Upstream connectivity management supported by flexibly configured fabric pipes
- Dynamic distribution and routing through automatic fault detection and recovery



# **KEY FEATURES**

- Function as standalone or a cluster (2.4Tbps up to 134Tbps)
- Interoperable with other S9700 Series using S9705-48D or S9725-64E as fabric
- 4GB Deep buffer
- Intel Skylake-D 8-Core at 1.9GHz
- Support full Segment Routing over IPv6 (SRv6)
- External TCAM to offer additional table sizes
- Fully supports SyncE and IEEE 1588v2 timing synchronization profiles
- 1 + 1 hot swappable PSU FRU
- 3 + 1 hot swappable Fan FRU

## **SPECIFICATIONS**

#### PHYSICAL

12 x 40/100G QSFP28 service ports

64 x 1/10/25G SFP28 service ports

6 x 400G QSFP-DD fabric ports

1 x RJ45 & Micro USB serial console ports

2 x 10G SFP+ management ports

1 x 100/1000M RJ45 management port

• 1x USB 3.0 Type-A port

Processor Intel Skylake-D 8-Core @ 1.9GHz Memory 64GB DDR4 Storage 128GB SSD Broadcom Jericho2c BCM88802 **ASIC** Broadcom OP2 BCM16K

**BMC** AST2400

Interfaces

1 x GNSS input SMA Timing

> 1 x 10MHz input/output SMB 1 x 1PPS input/output SMB 1 x ToD input/output RJ45

Stratum 3E OCXO Timing

ITU-T Synchronous Ethernet (SyncE) Support\*

IEEE 1588v2 - Default, G.8265.1 G.8275.1, G.8275.2, SMPTE ST 2059-2\*\* , T-GM, T-BC/OC, T-TC

2RU, 436 x 609.6 x 87.7 mm Chassis

or 17.17" x 24" x 3.45" (WxDxH) Weight: 15.54kg or 34.25lb (Without FRU)

Redundancy Hot swappable, 1+1 redundant PSU

Hot swappable, 3+1 redundant Fans

\*NOS integration is necessary to activate the specific feature

### **ENVIRONMENTAL**

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

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

Typical Power: 311 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

Packet Buffer 4GB

#### REGULATORY COMPLIANCE

Safety UL 62368-1 IEC 62368-1 **BSMI** MTCTE

**Environment WEEE** RoHS

FCC Part 15, Subpart B, Class A ICES-003, Class A

EN 55032, Class A EN 55024

EN 55035 EN 62479, EN 50663

FN 300 386 EN 301 489 EN 303 413

**BSMI** 

VCCI CISPR 32, Class A

KC KS C 9832, Class A; KS C 9835

Anatel

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

S9701-82DC

S9701-82DC Front and Rear Views





### **ACCESSORIES**

Compatible Transceiver Types

100GBASE QSFP28 ZR, 100GBASE QSFP28 ER, 100GBASE QSFP28 LR, 100GBASE QSFP28 SR,

25GBASE SFP28 ZR, 25GBASE SFP28 ER, 25GBASE SFP28 LR, 25GBASE SFP28 SR,

10GBASE SFP+ ER,10GBASE SFP+ LR, 10GBASE SFP+ SR, 1GBASE SFP EX, 1GBASE SFP LX, 1GBASE SFP SX

Compatible Fabric Cable Types

400GE QSFP-DD DAC (Direct Attach Cable), 400GE QSFP-DD AOC (Active Optical Cable), 400GE QSFP-DD AEC (Active Electric Cable)

Compatible Timing Cable Types SMA coaxial cable with 1/4-36UNS-2B connector for GNSS 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-132-DESR, 1300W DC, exhaust air flow PSU-132-AESR, 1300W AC, exhaust air flow

FAN-803816-HI, exhaust air flow



Telecom **Networking** Solutions

<sup>\*\*</sup>Additional license is required