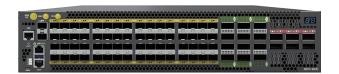




1PPS, and ToD) for modern network applications.

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

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.

- Function as standalone or a cluster (2.4Tbps up to 134Tbps)
- Interoperable with other S9700 Series using S9705-48D as fabric
- 4GB deep buffering and Intel Skylake-D 8-Core at 1.9GHz
- Hardware supports full SyncE and IEEE1588v2 (T-GM, T-TC, T-BC/OC)
- Rich timing interfaces: GNSS, 1PPS, 10MHz, ToD
- Individual BMC allowing automatic and remote operations for monitoring and managing platform health status
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 3+1 redundancy support

SPECIFICATIONS

PHYSICAL

Storage

Redundancy

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 10GBase-X 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

128GB SSD Broadcom Jericho2c BCM88802 **ASIC**

Broadcom OP2 BCM16K

BMC AST2400

1 x GNSS input SMA Timing Interfaces 1 x 10MHz input/output SMB

1 x 1PPS input/output SMB

1 x ToD input RJ45

Timing Stratum 3E OCXO

ITU-T Synchronous Ethernet (SyncE) Support

IEEE 1588v2 (Default, G.8265.1 G8275.1, G.8275.2),

T-TC, T-BC/OC, T-GM

2RU, 436 x 609.6 x 87.7 mm Chassis or 17.17" x 24" x 3.45" (WxDxH)

Weight: 16.64kg or 36.68lb

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

ENVIRONMENTAL

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

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

Typical Power: 311 Watts (no transceiver)

Operating temperature: 0°C to 45°C (32°F to 113°F) Max. Operating

Specs. Operating humidity: 5% to 85% (RH), non-condensing

Max. Non-Operating Storage temperature: -40°C to 70°C (-40°F to 158°F)

Specs. Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

Switching Capacity 2.4Tbps

Packet Buffer 4GB

REGULATORY COMPLIANCE

RoHS

FCC Part 15, Subpart B, Class A Safety UL 62368-1 **EMC**

ICES-003, Class A IEC 62368-1

EN 55032, Class A

EN 55024 EN 55035

WEEE EN 62479 Environment

EN 50663 EN 300 386 EN 301 489

EN 303 413

Specifications are subject to change without notice.

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 Types FAN-803816-HI, exhaust air flow



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