S9701-82DC

DISAGGREGATED CORE/EDGE ROUTER

The S9701-82DC is the best of breed robust, flexible and carrier-grade disaggregated IP/MPLS router that can be deployed in the core or edge to transport services over a scalable next-gen service provider network. Equipped with 25G and 100G service ports and 400G fabric ports, S9701-82DC enables fault and performance monitoring, non-stop routing support for control and data plane, and comprehensive high-availability networks.

As a standalone router, the S9701-82DC can be deployed at the edge network to enable transport services over a scalable next generation telecom network. It provides 4GB deep buffering with 1000Mpps packet throughput 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 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

- 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
Storage	128GB SSD
ASIC	Broadcom Jericho2c BCM88802 Broadcom OP2 BCM16K
BMC	AST2400
Timing Interfaces	1 x GNSS input SMA 1 x 10MHz input/ output SMB 1 x 1PPS input/ output SMB 1 x ToD input RJ45
Timing Support	Stratum 3E OCXO ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 (Default, G.8265.1 G8275.1, G.8275.2), T-TC, T-BC/OC, T-GM
Chassis (WxDxH)	2RU, 436 x 609.6 x 87.7 mm or 17.17" x 24" x 3.45" Weight: 16.64kg or 36.68lb
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Specs.	AC input: 100 to 240V, 12A 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	EMC	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 55024 EN 55035 EN 62479 EN 50663 EN 300 386 EN 301 489 EN 303 413
Environment	WEEE RoHS		

Specifications are subject to change without notice.

S9701-82DC

Telecom Networking Solutions

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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