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 25GE and 100GE service ports and 400GE 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 integrated 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, S9701-82DC cluster can scale from 2.8Tbps 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 (2.8Tbps up to 134Tbps)
- Interoperable with S9700-53DX, S9700-23D and S9705-48D
- 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)
- 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

- 64 x 25GE SFP28 service ports
- 12 x 100GE QSFP28 service ports
- 6 x 400GE QSFP-DD fabric ports
- 1 x RJ45 + Micro USB serial console port
- 1x USB 3.0 Type-A general purpose port
- 2 x 10GBase-X SFP+ management ports
- 1 x 10/100/1000M RJ45 management port

Processor	Intel Skylake-D 8 Core @ 1.9GHz
Memory	64GB DDR4 R-DIMM with ECC
Storage	128GB SSD
ASIC	Broadcom Jericho2c BCM88802 Broadcom OP2 BCM16K (Optional)
BMC	Aspeed 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
Hardware Timing Capabilities	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 17.17 x 24 x 3.45 in. Weight: 15.4 kg (34.03lbs)
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant fans

ENVIRONMENTAL

Power Specs.	AC input: 200 ~ 240V, 7.5A DC input: -40 ~ -75V, 40A Typical Power: 332.9 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: 0℃ to 45℃ (32°F to 113°F) Operating humidity: 5% to 85% (RH), noncondensing
Max. Non-Operating Specs.	Storage temperature: -40℃ to 70℃ (-40°F to 158°F) Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

Switching Capacity	2.4 Tbps
Packet Buffer	4GB

REGULATORY COMPLIANCE

Safety		EMC	
	UL 62368-1 IEC 60950-1 IEC/EN 62368-1		FCC Part 15, Subpart B,Class A ICES-003 EN 55032, Class A EN 300 386 EN 55024 EN 55035 EN 61000-3-2 EN 61000-3-3

Specifications are subject to change without notice.

S9701-82DC

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S9701-82DC Front and Rear Views

SUPPORTED ACCESSORIES

Transceivers
100GBASE QSFP28 SR4, 100GBASE QSFP28 LR4, 100GBASE QSFP28 ER4, 100GBASE QSFP28 ZR4, 25GBASE SFP28 SR, 25GBASE SFP28 LR, 25GBASE SFP28 ER, 25GBASE SFP28 ZR, 10GBASE SFP+ SR, 10GBASE SFP+ LR, 10GBASE SFP+ ER, 1GBASE SFP SX, 1GBASE SFP LX, 1GBASE SFP EX, 1GBASE SFP SX, 1GBASE SFP LX, 1GBASE SFP EX

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

Power Supply Types
1300W DC, exhaust, slim type, red colored latch
1300W AC, exhaust, slim type, red colored latch

Fan Types
Front to back airflow, red colored latch

Rack mounting kit
Adjustable slide rail kit for systems on 19 in. width racks, support depth from 21 in. to 35 in.