

S9725-64E

DISAGGREGATED Fabric Router

The S9725-64E is the best of breed, robust and carrier-grade Distributed Disaggregated Chassis (DDC) white box fabric router. With the disruptive innovation that disaggregates a traditional chassis, the S9725-64E plays a crucial role as a backplane switch fabric for UfiSpace's disaggregated open core/edge routers, providing non-blocking interconnect inside the cluster that enables a scalable next-gen. service provider network.

Powered by Broadcom Ramon 3 switching ASIC, the S9725-64E is equipped with 800G fabric ports and capable of performing 21.6 billion cell switches per second. The cell-based switching eliminates the Ethernet overhead and can effectively load balance all fabric links to build an efficient and high-availability DDC cluster.

The S9725-64E fabric couples with the S9700 Series routers in varying clusters cluster sizes enabling horizontal scaling up to 921.6Tbps switching capacity in a pay-as-you-grow model. It scales out not only economically but rapidly which brings down the total cost of ownership.



KEY BENEFITS

- Flexible capacity growth using horizontal scaling, pay-as-you-grow model
- High density ports with low power consumption
- Transparent networking, interoperability with S9700 series core and edge routers
- Enables routing clusters up to 921.6Tbps
- Upstream connectivity management supported by three flexibly configured fabric pipes
- Dynamic distribution and routing through automatic fault detection and recovery
- Utilizes cell switching to effectively load balance all fabric links for maximum utilization

KEY FEATURES

- 64 x 800G QSFP-DD fabric ports
- Support for 21.6 billion cells per second
- Internal data cells memory
- Individual BMC operation
- Intel Icelake 4-Core @ 1.9 GHz
- 2x 16G DDR4 R-DIMM with ECC
- 1 + 1 hot swappable PSU FRU
- 3 + 1 hot swappable FAN FRU

SPECIFICATIONS

PHYSICAL

	♦ 64 x 800G 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
	♦ 1 x USB 3.0 Type-A port
Processor	Intel Icelake 4-Core @ 1.9GHz
Memory	32G DDR4
Storage	2x 256G M.2 SSD
ASIC	Broadcom Ramon3 BCM88920
BMC	AST2620
Timing Interfaces	1 x 1PPS input/output SMB(Premium) 1 x 10MHz input/output SMB(Premium)
Timing Support*	Stratum 3E OCXO ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 - Default, G.8265.1 G.8275.1, G.8275.2, SMPTE ST 2059-2+, „, T-BC/OC, T-TC
Chassis (WxDxH)	2RU, 436 x 762 x 87.7 mm or 17.17" x 30" x 3.45" Weight: 23.69 kg (52.22lbs)
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans

*NOS integration is necessary to activate the specific feature.
**Additional license is required

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ENVIRONMENTAL

Power Specs.	AC input: 200 to 240V, 16A DC input: -40 to -72V, 80A Typical power: 653 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	21.6 billion cells per second
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REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 62368-1	EMC	FCC Part 15, Subpart B, Class A
Environment	WEEE		

Specifications in this document are preliminary and subject to change without notice.
Contact our sales team for current configuration options.

S9725-64E Front and Back Views



ACCESSORIES

Compatible Fabric Transceiver Types	800GE QSFP-DD SR8, 800GE QSFP-DD LR8, 800GE QSFP-DD DR4, 800GE QSFP-DD FR4, 400GE QSFP-DD SR8
Compatible Fabric Cable Types	800GE QSFP-DD DAC (Direct Attach Cable), 800GE QSFP-DD AEC (Active Electric Cable), 800GE QSFP-DD AOC (Active Optical Cable), 400GE QSFP-DD DAC (Direct Attach Cable), 400GE QSFP-DD AEC (Active Electric Cable), 400GE QSFP-DD AOC (Active Optical Cable)
Compatible Timing Cable Types	SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz
Available to Order	Power Supply Types PSU-302-DESR, 3000W DC, exhaust air flow PSU-302-AESR, 3000W AC, exhaust air flow Fan Types FAN-808012- HCE, exhaust air flow

