

## 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 memory 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 10GBase 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 2x 16G DDR4 R-DIMM

Storage 2x 128G 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), T-TC, T-BC/OC, T-GM

Chassis (WxDxH) 2RU, 436 x 762 x 87.7 mm or  
17.17" x 30" x 3.45"  
Weight: 31.07 kg (68.49 lbs)

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

## ENVIRONMENTAL

Power Specs. AC input: 200 to 240V  
DC input: -40 to -72V  
Typical power: 653Watts (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

## REGULATORY COMPLIANCE

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

Environment WEEE

Specifications are subject to change without notice.

# S9725-64E

Telecom  
Networking  
Solutions

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

