ufiSpace

Telecom Networking Solutions

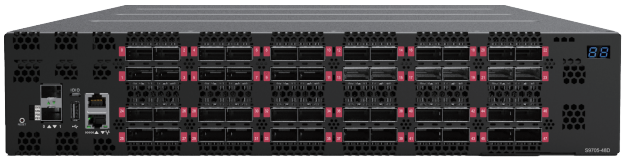
S9705-48D

DISAGGREGATED Fabric Router

The S9705-48D 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 S9705-48D 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 switching ASIC, the S9705-48D is equipped with 400G fabric ports and capable of performing 8 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 S9705-48D fabric couples with the S9700 Series routers in varying clusters cluster sizes enabling horizontal scaling up to 691Tbps 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 691Tbps
- 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

- 48 x 400G QSFP-DD fabric ports
- Support for 8 billion cells per second
- Internal data cells memory
- Individual BMC operation
- Intel Broadwell-DE 8-Core @ 2 GHz
- 64GB memory DDR4 R-DIMM with ECC
- 1 + 1 hot swappable PSU FRU
- 3 + 1 hot swappable FAN FRU

SPECIFICATIONS

PHYSICAL

- 48 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
- 1 x USB 2.0 Type-A port

Processor	Intel Broadwell-DE 8-Core @ 2.0GHz
Memory	64GB DDR4
Storage	128GB SSD
ASIC	Broadcom Ramon BCM88790
BMC	AST2400
LED	Power status Fan status System status Per port link status Beacon Per fan status Per PSU status
Chassis (WxDxH)	2RU, 436 x 762 x 87.7 mm or 17.17" x 30" x 3.45" Weight: 19.86kg or 43.78lb
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Specs.	AC input: 200 to 240V, 12.5A DC input: -40 to -72V, 60A Typical power: 377 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	8 billion cells per second

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 62368-1 BSMI NOM
Environment	WEEE RoHS GR-63, NEBS Level 3
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 BSMI VCC CISPR 32, Class A AS/NZS CISPR 32, Class A ANATEL NEBS GR-1089, NEBS Level 3

Specifications are subject to change without notice.

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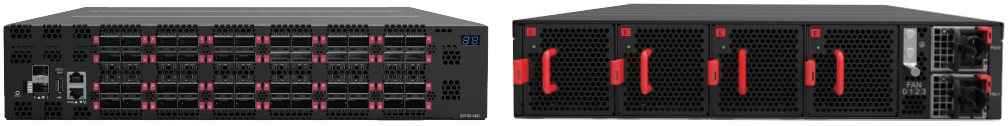
S9705-48D Front and Back Views



ACCESSORIES

Compatible Fabric Transceiver Types
400GE QSFP-DD SR8, 400GE QSFP-DD LR8, 400GE QSFP-DD DR4, 400GE QSFP-DD FR4

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

Available to Order
Power Supply Types
PSU-202-DESR, 2000W DC, exhaust air flow
PSU-202-AESR, 2000W AC, exhaust air flow

Fan Types
FAN-803816-HC, exhaust air flow