

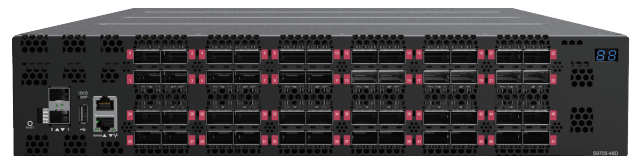
## S9705-48D

### 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 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 10G 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 (Without FRU)
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans

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## 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
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## REGULATORY COMPLIANCE

Safety	UL 62368-1	EMC	FCC Part 15, Subpart B, Class A
	IEC 62368-1		ICES-003, Class A
	IEC 60950-1		EN 55032, Class A
	BSMI		EN 300 386
	NOM		EN 301 489
Environment	WEEE RoHS NEBS GR-63		EN 303 413
			EN 55024
			EN 55035
			EN 62479
			EN 50663
		BSMI	
		VCCI CISPR 32, Class A	
		RCM AS/NZS CISPR 32, Class A	
Anatel			
NEBS GR-1089			

Specifications are subject to change without notice.

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

