

S9700-53DX

DISAGGREGATED Core/Edge Router

The S9700-53DX 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 100GE service ports and 400G fabric ports, S9700-53DX enables fault and performance monitoring, non-stop routing support for control and data plane, and comprehensive high-availability networks.

As a standalone router, the S9700-53DX can be deployed at the edge network to enable transport services over a scalable next generation Telecom network. It provides 8GB deep buffering with 2000Mpps packet throughput and 4.8Tbps switching capacity. It includes a knowledge-based processor (or TCAM) to perform up to 16 parallel searches to reach decision speeds of multiple billion decisions per second, which makes it ideal for provider edge applications.

When coupled with UfiSpace's fabric switch (S9705-48D), the S9700-53DX becomes a building block for a distributed disaggregated chassis (DDC) cluster. The DDC allows network service providers to implement a pay-as-you-grow model when scaling core network capacities with a S9700-53DX cluster scaling up to 192Tbps.



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
- Ideal for Core, Edge, and Central Office deployments (NEBS Level 3)
- Upstream connectivity management supported by three flexibly configured fabric pipes
- Dynamic distribution and routing through automatic fault detection and recovery

KEY FEATURES

- Function as standalone or a cluster (4Tbps up to 192Tbps)
- Interoperable with other S9700 Series using S9705-48D
- Service Ports support 4x25G break-out
- 8GB deep buffering and Intel Broadwell-DE 8-Core at 2 GHz
- 64GB memory DDR4 R-DIMM with ECC
- Individual BMC allowing automatic and remote operations for monitoring and managing platform health status
- 1 + 1 hot swappable PSU FRU
- 3 + 1 hot swappable Fan FRU

SPECIFICATIONS

PHYSICAL

♦ 40 x 40/100G QSFP28 service ports	
♦ 13 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 Jericho2 BCM88690 Broadcom OP2 BCM16K
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: 21.14kg or 46.61lb
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: 563 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	4.8Tbps
Deep Buffer	8GB

REGULATORY COMPLIANCE

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

Specifications are subject to change without notice.

S9700-53DX

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S9700-53DX Front and Back Views



ACCESSORIES

Compatible Transceiver Types
100GE QSFP28 SR4, 100GE QSFP28 LR4, 100GE QSFP28 ER4, 100GE QSFP28 ZR4

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

