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

The S9700-53DX can be positioned as standalone or coupled with fabric router in small, medium and large clusters enabling 4Tb to 192Tb maximum switching capacity. By connecting to S9705-48D (Fabric) it scales out not only economically & rapidly, but brings down also the total cost of ownership.

S9700-53DX adopts the innovative discrete NCP (Network Cloud Processor) and NCF (Network Cloud Fabric) building blocks providing flexibility to core router needs in the industry, integral to Ethernet switching performance and intelligence to networks while minimizing the network complexity.

Key Benefits

▶ Accelerated table lookup, packet buffering, and control memory with low latency high bandwidth memory

▶ Flexible and programmable packets processor

▶ Individual BMC operation

▶ High density ports with low power consumption

▶ Transparent networking, interoperability with S9705-48D

▶ Upstream connectivity management supported by three flexibly configured fabric pipes

▶ Dynamic distribution and routing through automatic fault detection and recovery

Key Features

▶ 40 x 100GE QSFP28 service ports

▶ 13 x 400GE QSFP-DD fabric ports

▶ 1 + 1 hot swappable PSU FRU

▶ 3 + 1 hot swappable Fan FRU

▶ Micro USB and RJ-45 console port

▶ 8GB deep buffering and Intel Broadwell-DE 8 core at 2 GHz

▶ 64GB memory DDR4 RDIMM with ECC

Specifications

Physical

- 100GE QSFP28
- 40 x 100GE QSFP28 service ports
- 13 x 400GE QSFP-DD fabric ports
- 1 x RJ-45 + Micro USB serial console ports
- 1 x 1GBase-T Ethernet port for Out-of-Band management
- 1 x USB 2.0 Type-A general purpose port
- 2 x 10GBase-X SFP+ management ports

Processor	Intel® Broadwell-DE 8 core @ 2.0 GHZ
Memory	2 x 32GB DDR4 RDIMM with ECC support
Storage	2 x M.2 SATA SSD 128GB
ASIC	Broadcom BCM88690
LED	• 2 x power status • Beacon • Fan status • Per fan status • System status • Per PSU status • Per port link status
Chassis (WxDxH)	2RU, 436 x 762 x 87.6 mm | 17.17 x 30 x 3.45 in. Weight: 26.7 kg (58.9 lbs)
Fan Trays	Hot swappable, 3+1 redundant FRU

Environmental

Power supply	Hot swappable, 1+1 redundant FRU AC input: 200 ~ 240V, 12.5A, 50 ~ 60Hz DC input: -40 ~ -72V, 60 ~ 33A Max power: 2000 Watts
Operating Specs.	Operating temperature: 0°C to 45°C (32°F to 113°F) Operating humidity: 5% to 85% (RH), noncondensing Altitude: 1,829 m (6,000 ft.)
Non-Operating Specs.	Storage temperature: –40°C to 70°C (–40°F to 158°F) Storage humidity: 5% to 95% (RH), non-condensing

Performance

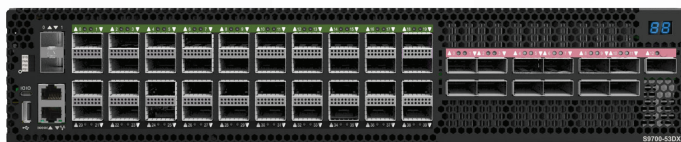|	
Switching Capacity	4.8 Tbps
Packet Throughput	2000 Mpps

Regulatory Compliance

Safety		EMC	
	NEBS Level3 UL 62368-1 IEC/EN 60950-1 IEC/EN 62368-1 BSMI CNS 14336-1		NEBS Level 3 FCC Part 15, Subpart B, Class A EN55032, Class A EN300 386 EN55024 EN55035 BSMI (CNS 13438), Class A

All product specifications are subject to change without notice

S9700-53DX Views

Supported Accessories

Transceiver	Fabric: 400GE QSFP-DD SR8, 400GE QSFP-DD LR8, 400GE QSFP-DD DR4, 400GE QSFP-DD FR4, 100GE QSFP28 SR4, 100GE QSFP28 LR4, 100GE QSFP28 ER4 Service: 100GE QSFP28 SR4, 100GE QSFP28 LR4, 100GE QSFP28 ER4
Cable types	Fabric: 400GE QSFP-DD DAC (Direct Attach Cable), 400GE QSFP-DD ACC (Active Copper Cable), 400GE QSFP-DD AOC (Active Optical Cable), 100GE QSFP28 DAC (Direct Attach Cable), 100GE QSFP28 ACC (Active Copper Cable), 100GE QSFP28 AOC (Active Optical Cable), Service: 100GE QSFP28 DAC (Direct Attach Cable), 100GE QSFP28 ACC (Active Copper Cable), 100GE QSFP28 AOC (Active Optical Cable)
Power supply types	PSU-202-DESR 2000W DC PSU, exhaust air flow PSU-202-AESR 2000W AC PSU, exhaust air flow
Fan types	FAN-803816-HC, exhaust air flow
Rack mounting kit	R19-970000-2630 adjustable mounting rail for 19" rack supporting depth from 26" to 30"