ufiSpace

S9700-23D

DISAGGREGATED
Core/Edge Router

The S9700-23D 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 400GE service and fabric ports, S9700-23D enables fault and performance monitoring, non-stop routing support for control and data plane, and comprehensive high-availability networks.

As a standalone router, the S9700-23D 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 4.8Tbs 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 S9700-23D becomes a building block for a distributed disaggregated chassis (DDC). The DDC allows telecoms and service providers to implement a pay-as-you-grow model when scaling core network capacities from 4Tbs up to 192Tbs.

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 (4Tb up to 192Tb)
- Interoperable with S9700-53DX and S9705-48D
- Service Ports support 4x100GE break-out
- 8GB deep buffering and Intel Broadwell-DE 8 core at 2 GHz
- 64GB memory DDR4 RDIMM 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

- 10 x 400GE QSFP-DD service ports
- 13 x 400GE QSFP-DD fabric ports
- 1 x RJ45 + 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 Jericho2 BCM88690
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 87.6 mm 17.17 x 30 x 3.45 in. Weight: 23.9 kg (52.8 lbs)
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant fans

ENVIRONMENTAL

Power Supply	AC input: 200 ~ 240V, 12.5A, 50 ~ 60Hz DC input: -40 ~ -72V, 60 ~ 33A Typical power: 581 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: 0°C to 45°C (32°F to 113°F) Operating humidity: 5% to 85% (RH), noncondensing ltitude: 1,829 m (6,000 ft.)
Max. 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 Level 3 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 EN 55032, Class A EN 300 386 EN 55024 EN 55035 BSMI (CNS 13438), Class A VCCI-CISPR 32:2016, Class A VCCI 32-1:2016, Class A

Specifications are subject to change without notice.

S9700-23D

Telecom Networking Solutions

S9700-23D Front and Back Views

SUPPORTED ACCESSORIES

Transceivers
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

Cable Types
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)

Power Supply Types
PSU-202-DESR 2000W DC, exhaust air, slim type, colored latch
PSU-202-AESR 2000W AC, exhaust air, slim type, colored latch

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"