

S9710-76D

400G DISAGGREGATED Core/Edge Router

The UfiSpace S9710-76D is a 36 x 400G disaggregated open router providing carrier feature support including Ethernet OAM, IP/MPLS, VPLS and more that evolves the network to a 400G network, which enables next generation of 5G services and applications. The S9710-76D can be deployed as a standalone device or within a core switching cluster as a "line card" element within the distributed disaggregated chassis.

As a standalone router, the S9710-76D can be deployed at the edge network to enable transport services over a scalable next generation Telecom network. It is also suitable for central office data centers and general network aggregation. When coupled with UfiSpace's fabric switch, the S9710-76D becomes a building block for the distributed disaggregated chassis (DDC). The DDC allows network service providers to implement a pay-as-you-grow model when scaling core network capacities with a S9710-76D cluster scaling up to 691.2Tbps.

The S9710-76D disaggregated core router uses the Broadcom J2C+ chipset, which provides 16GB deep buffering and 14.4Tbps 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.

As a core router, the S9710-76D enables fault and performance monitoring, non-stop routing support for control and data plane, and comprehensive high-availability networks.



KEY BENEFITS

- Accelerated table lookup, packet buffering, and control memory with low latency high bandwidth memory
- Flexible and programmable packets processor
- Enable MACsec for point-to-point security
- Individual BMC for monitoring and managing health status
- High density ports with low power consumption
- Transparent networking, interoperability with S9705-48D, S9700-53DX, S9700-23D, and S9701-82DC
- Upstream connectivity management supported by flexible fabric pipes
- Dynamic distribution and routing through automatic fault detection and recovery

KEY FEATURES

- Function as standalone or a cluster (14.4Tbps up to 691.2Tbps)
- Interoperable with other S9700 Series using S9705-48D or S9725-64E as Fabric
- Dense, high capacity 400G service ports, support 4x100G break-out
- 16GB Deep buffer
- Intel Skylake-D 8-Core @ 1.9GHz
- Fully supports SyncE and IEEE 1588v2 timing synchronization profiles
- Support full Segment Routing over IPv6 (SRv6)
- External TCAM to offer additional table sizes
- 1 + 1 hot swappable PSU FRU
- 3 + 1 hot swappable Fan FRU

SPECIFICATIONS

PHYSICAL

- ◆ 36 x 40/100/200/400G QSFP-DD service ports with 400G ZR/ZR+ support
- ◆ 40 x 400G QSFP-DD fabric ports
- ◆ 1 x RJ45 & Micro USB serial console ports
- ◆ 2 x 10G SFP+ management ports
- ◆ 1 x USB 3.0 Type-A port
- ◆ 1 x 100/1000M RJ45 management port

ASIC Broadcom Jericho2c+ BCM88850
Broadcom OP2 BCM16K (Premium)

Processor Intel Skylake-D 8-Core @ 1.9GHz

Memory 32GB DDR4 (Up to 128GB)

Storage 1 x 128GB SSD (Up to 2 x 128GB)

BMC Aspeed AST2400

Timing Interfaces 1 x 1PPS input/output SMB(Premium)
1 x 10MHz input/output SMB(Premium)

Timing Support- Stratum 3E OCXO
ITU-T Synchronous Ethernet (SyncE)
IEEE 1588v2 - Default, G.8265.1 G.8275.1,
G.8275.2, SMPTE ST 2059-2** , T-BC/OC, T-TC

Chassis (WxDxH) 2 RU, 436 x 762 x 87.7 mm
or 17.17" x 30" x 3.45"
Weight: 26.95kg or 59.41lb (Without FRU)

Redundancy Hot swappable, 1+1 redundant PSU
Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Supply AC input: 200 to 240V, 16A
DC input: -40 to -72V, 80A
Typical power: 667 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 14.4Tbps

Deep Buffer 16GB

REGULATORY COMPLIANCE

Safety UL 62368-1
IEC 60950-1
IEC 62368-1
BSMI
MTCTE

Environment RoHS
WEEE

EMC FCC Part 15B, 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
MTCTE
Anatel

*NOS integration is necessary to activate the specific feature.

**Additional license is required

OP2 available for premium SKU only

Specifications are subject to change without notice
Contact our sales team for current configuration options.

S9710-76D

Telecom
Networking
Solutions

S9710-76D Front and Back Views



SUPPORTED ACCESSORIES

Compatible Transceivers Types

400GE QSFP-DD OpenZR+, 400GE QSFP-DD ZR, 400GE QSFP-DD ER4, 400GE QSFP-DD LR4, 400GE QSFP-DD FR4, 400GE QSFP-DD SR8, 400GE QSFP-DD DR4, 400GE QSFP-DD DR4+, 400GE QSFP-DD PLR4, 200GE QSFP56 SR4, 200GE QSFP56 FR4, 100GE QSFP28 ZR4, 100GE QSFP28 ER4, 100GE QSFP28 SR4, 100GE QSFP28 LR4

Compatible Fabric Cable Types

400GE QSFP-DD AEC (Active Electrical Cable), 400GE QSFP-DD DAC (Direct Attach Cable), 400GE QSFP-DD ACC (Active Copper Cable), 400GE QSFP-DD AOC (Active Optical Cable)

Compatible Timing Cable Types

SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz

Available to Order

Power Supply Types

PSU-302-DESR, 3000W DC, exhaust air flow
PSU-302-AESR, 3000W AC, exhaust air flow

Fan Types

FAN-808012-HC, exhaust air flow

