

# S9710-76D

## 400G DISAGGREGATED CORE AND EDGE ROUTER

The UfiSpace S9710-76D is a 36 x 400GE disaggregated open router that evolves the network to a 400GE 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 telecoms and service providers to implement a pay-as-you-grow model when scaling core network capacities from 4Tbs up to 691.2Tbs.

The S9710-76D disaggregated core router uses the Broadcom J2C+ chipset, which provides 16GB deep buffering and 14.4Tbs 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
- Individual BMC for monitoring and managing health status
- High density ports with low power consumption
- Transparent networking, interoperability with S9705-48D, S9700-53DX and S9700-23D
- Upstream connectivity management supported by flexibly configured fabric pipes
- Dynamic distribution and routing through automatic fault detection and recovery

### KEY FEATURES

- Dense, high capacity 400GE service ports
- Fabric ports allow for horizontal scaling of network capacity
- Service Ports support 4x100GE break-out
- Pay as you grow model for capacity increase
- 16GB deep buffering and Intel Skylake-D 8 core at 1.9 GHz
- 4x32GB (up to 4x64GB) DDR4 R-DIMM with ECC
- Hardware supports full SyncE and IEEE1588v2 (T-TC, T-BC/OC)
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 3+1 redundancy support

# SPECIFICATIONS

## PHYSICAL

- ◆ 36 x 400GE QSFP-DD service ports
- ◆ 40 x 400GE QSFP-DD fabric ports
- ◆ 1 x RJ45 serial console port
- ◆ 1 x Micro USB console port
- ◆ 1 x 1GE Ethernet port for OOB management
- ◆ 1 x USB 3.0 Type-A general purpose port
- ◆ 2 x 10GBase SFP+ management ports

Processor Intel Skylake-D D-2145NT 8 Core, 1.9GHz

Memory 4x32GB (up to 4x64GB) DDR4 R-DIMM with ECC

Storage 2x128GB (up to 2 x 256GB) SSD

ASIC Broadcom Jericho2c+ BCM88850 x 2 (w/ MACsec)  
Broadcom BCM16K x 4

Timing 1 x 10MHz input/output SMB  
Interfaces 1 x 1PPS input/output SMB

Hardware Stratium 3E OCXO  
Timing ITU-T Synchronous Ethernet (SyncE)  
Capabilities IEEE 1588v2 (Default Profile,  
G.8265.1 G8275.1, G.8275.2 profiles)  
T-TC, T-BC/OC

Chassis 2 RU, 436 x 762 x 87.7 mm  
(WxDxH) or 17.17" x 30" x 3.45"

Redundancy Hot-swappable, 1+1 Redundant PSU  
Hot-swappable, 3+1 Redundant fans

## ENVIRONMENTAL

Power Supply AC input: 200 ~ 240V  
DC input: - 48V  
Typical power: 1397 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

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 14.4Tbps

## REGULATORY COMPLIANCE

Safety UL 62368-1  
IEC 60950-1  
IEC/EN 62368-1  
BSMI CNS 14336-1

EMC FCC Part 15B, Class A,  
EN55032, Class A  
EN300 386  
EN55024 EN55035  
BSMI (CNS 13438), Class A  
VCCI-CISPR 32:2016, Class A  
VCCI 32-1:2016, Class A

Specifications are subject to change without notice.

# S9710-76D

Telecom  
Networking  
Solutions

S9710-76D Front and Rear 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

### 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),  
100GE QSFP28 DAC (Direct Attach Cable), 100GE QSFP28 ACC (Active Copper Cable),  
100GE QSFP28 AOC (Active Optical Cable)  
SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz

### Power Supply Types

PSU-302-DESR 3000W DC, exhaust air, slim type, colored latched  
PSU-302-AESR 3000W AC, exhaust air, slim type, colored latched

### Fan Types

FAN-808012-HC, exhaust air flow

### Rack mounting kit

R19-970000-2630 adjustable mounting rail for 19" rack supporting  
depth from 26" to 30"

