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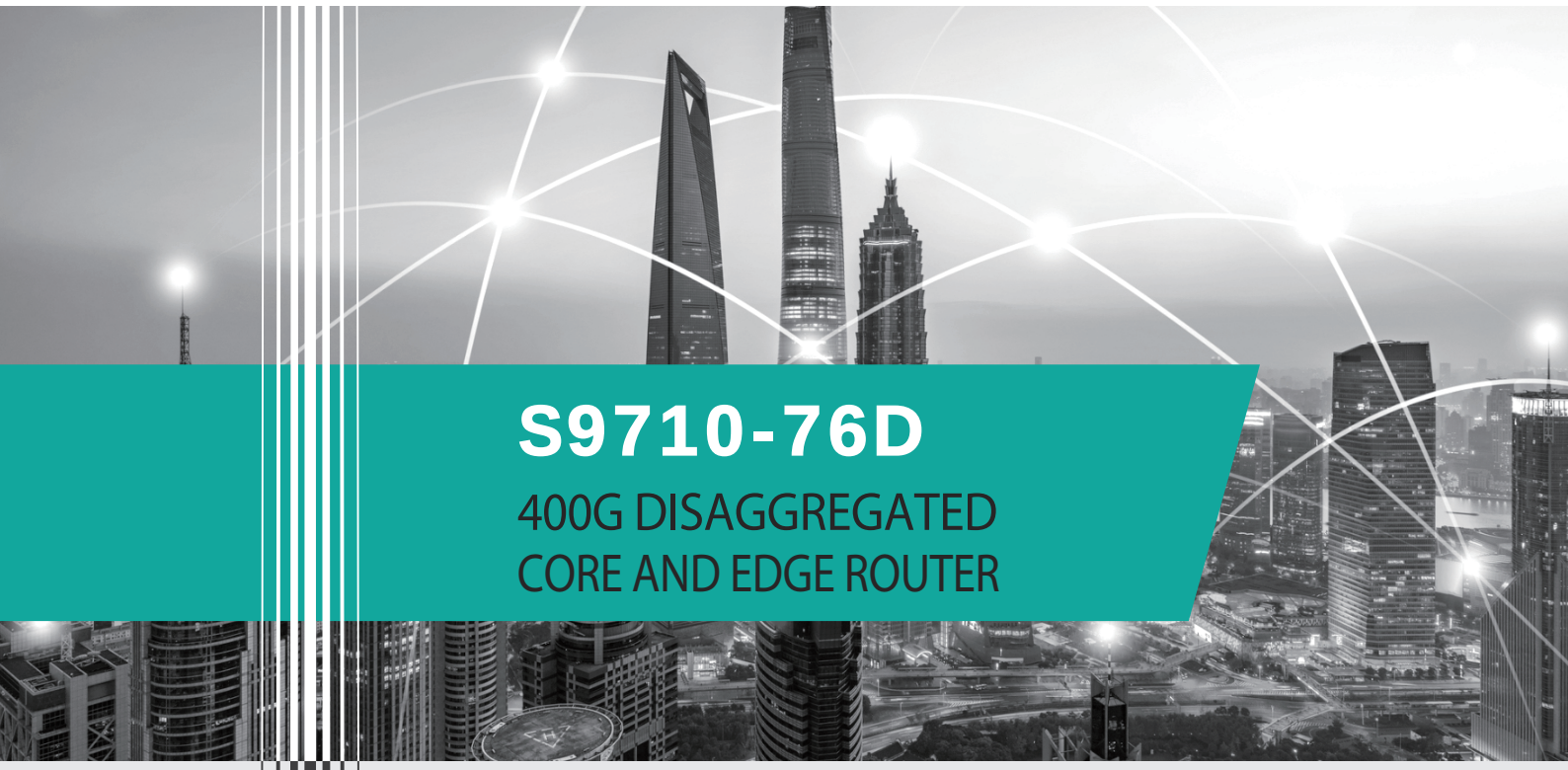
Telecom Networking Solutions



S9710-76D

400G DISAGGREGATED CORE AND 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
- 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 S9710-82DC
- Upstream connectivity management supported by flexibly configured fabric pipes
- Dynamic distribution and routing through automatic fault detection and recovery

KEY FEATURES

- Dense, high capacity 400G service ports
- Fabric ports allow for horizontal scaling of network capacity
- Service Ports support 4x100G break-out
- Pay as you grow model for capacity increase
- 16GB deep buffering and Intel Skylake-D 8-Core @ 1.9GHz
- 64GB 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 40/100/400G QSFP-DD service ports supporting 400ZR and OpenZR+
- 40 x 400G QSFP-DD fabric ports
- 1 x RJ45 & Micro USB serial console ports
- 2 x 10GBase SFP+ management ports
- 1 x 100/1000M RJ45 management port
- 1 x USB 3.0 Type-A port

Processor	Intel Skylake-D 8-Core @ 1.9GHz
Memory	64GB DDR4
Storage	256GB SSD
ASIC*	Broadcom Jericho2c+ BCM88850 Broadcom OP2 BCM16K (Premium)
BMC	AST2400
Timing Interfaces	1 x 10MHz input/output SMB 1 x 1PPS input/output SMB
Timing Support	Stratum 3E OCXO ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 (Default Profile, G.8265.1 G8275.1, G.8275.2 profiles) T-TC, T-BC/OC
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
Redundancy	Hot-swappable, 1+1 Redundant PSU Hot-swappable, 3+1 Redundant fans

*OP2 available for premium SKU only

ENVIRONMENTAL

Power Specs.	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 EN62479 EN 50663 EN 300 386 EN 301 489 EN 303 413 BSMI VCCI CISPR 32, Class A MTCTE

Specifications are subject to change without notice.

S9710-76D

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S9710-76D Front and Rear Views

ACCESSORIES

Compatible Transceiver 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-808812-HC, exhaust air flow