

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

As a standalone router, the S9700-53DX 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 4.8Tbps 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 S9700-53DX becomes a building block for a distributed disaggregated chassis (DDC) cluster. The DDC allows network service providers to implement a pay-as-you-grow model when scaling core network capacities with a S9700-53DX cluster scaling up to 192Tbps.



## 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 (4Tbps up to 192Tbps)
- Interoperable with other S9700 Series using S9705-48D
- Service Ports support 4x25G break-out
- 8GB deep buffering and Intel Broadwell-DE 8-Core at 2 GHz
- 64GB memory DDR4 R-DIMM 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

|   |   |
|---|---|
| ♦ 40 x 40/100G QSFP28 service ports         |   |
| ♦ 13 x 400G QSFP-DD fabric ports            |   |
| ♦ 1 x RJ45 & Micro USB serial console ports |   |
| ♦ 2 x 10G SFP+ management ports             |   |
| ♦ 1 x 100/1000M RJ45 management port        |   |
| ♦ 1 x USB 2.0 Type-A port                   |   |
| Processor                                   | Intel Broadwell-DE 8-Core @ 2.0GHz  |
| Memory                                      | 64GB DDR4   |
| Storage                                     | 128GB SSD   |
| ASIC  | Broadcom Jericho2 BCM88690<br>Broadcom OP2 BCM16K   |
| BMC   | AST2400   |
| LED   | Power status<br>Fan status<br>System status<br>Per port link status<br>Beacon<br>Per fan status<br>Per PSU status |
| Chassis<br>(WxDxH)                          | 2RU, 436 x 762 x 87.7 mm<br>or 17.17" x 30" x 3.45"<br>Weight: 21.14kg or 46.61lb                                 |
| Redundancy                                  | Hot swappable, 1+1 redundant PSU<br>Hot swappable, 3+1 redundant Fans   |

S9700-53DX

Telecom  
Networking  
Solutions

## ENVIRONMENTAL

|                           |   |
|---------------------------|---|
| Power Specs.              | AC input: 200 to 240V, 12.5A                        |
|                           | DC input: -40 to -72V, 60A                          |
|                           | Typical power: 563 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 | 4.8Tbps |
| Deep Buffer        | 8GB     |

## REGULATORY COMPLIANCE

|        |  |     |   |
|--------|--|-----|---|
| Safety | UL 62368-1<br>IEC 62368-1<br>BSMI<br>NOM | EMC | FCC Part 15, Subpart B, Class A<br>ICES-003, Class A<br>EN 55032, Class A<br>EN 55024<br>EN 55035<br>EN 62479<br>EN 50663<br>EN 300 386<br>EN 301 489<br>EN 303 413<br>BSMI<br>VCCI CISPR 32, Class A<br>AS/NZS CISPR 32, Class A<br>Anatel<br>NEBS GR-1089 |
|        | Environment                              |     |   |
|        | WEEE<br>RoHS<br>NEBS GR-63               |     |   |

Specifications are subject to change without notice.

S9700-53DX Front and Back Views



## ACCESSORIES

Compatible Transceiver Types  
100GE QSFP28 SR4, 100GE QSFP28 LR4, 100GE QSFP28 ER4, 100GE QSFP28 ZR4

Compatible Fabric Cable Types  
400GE QSFP-DD DAC (Direct Attach Cable), 400GE QSFP-DD AEC (Active Electric Cable),  
400GE QSFP-DD AOC (Active Optical Cable)

Available to Order  
Power Supply Types  
PSU-202-DESR, 2000W DC, exhaust air flow  
PSU-202-AESR, 2000W AC, exhaust air flow

Fan Types  
FAN-803816-HC, exhaust air flow

