

Core Router

AS9926-24D/AS9926-24DB



The Edgecore COR580 is a high-performance fabric switch for carrier, data center, or transport networking applications. The switch is a 1RU form factor with Broadcom StrataDNX family SoC silicon and consists of 24 x 400GE QSFP-DD Fabric Interfaces (FIF).

Interconnected with the Edgecore COR550 (Jericho2 Leaf), the COR580 can be deployed in a spine and leaf architecture supporting a maximum 24 COR550 leaf interconnections, which forms a complete solution and enables you to build scalable and flexible core network infrastructures providing a total 96 Tbps of bandwidth for routing, packet processing, and efficient traffic management.

The COR580 open network fabric switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including the open source options Open Network Linux, plus commercial NOS offerings.

Key Features and Benefits

- Cost-effective, flexible and scalable fabric switch for carrier core router applications
- 24 x QSFP-DD cell-base fabric ports
- PAM4/50GE and NRZ/25GE configurations, allowing interconnections to J+/J2C devices
- Broadcom StrataDNX™ series Ramon silicon for high-scale capacity and traffic management
- Self-routing with dynamic load balancing
- Support for single-stage and three-stage fabric configurations
- Supports fabric multicast and multicast load balancing
- Support for three pipes with flexible allocation, e.g., TDM/OTN - unicast data - multicast data
- High-performance Intel® Xeon® Broadwell-DE, 8 core CPU with integrated BMC (AS9926-24DB)
- Supports hot/cold aisles with front-to-back airflow SKUs
- Hot-swappable, load-sharing, 1+1 redundant DC-DC/AC-DC PSUs
- 5+1 redundant, hot-swappable fan modules

Applications

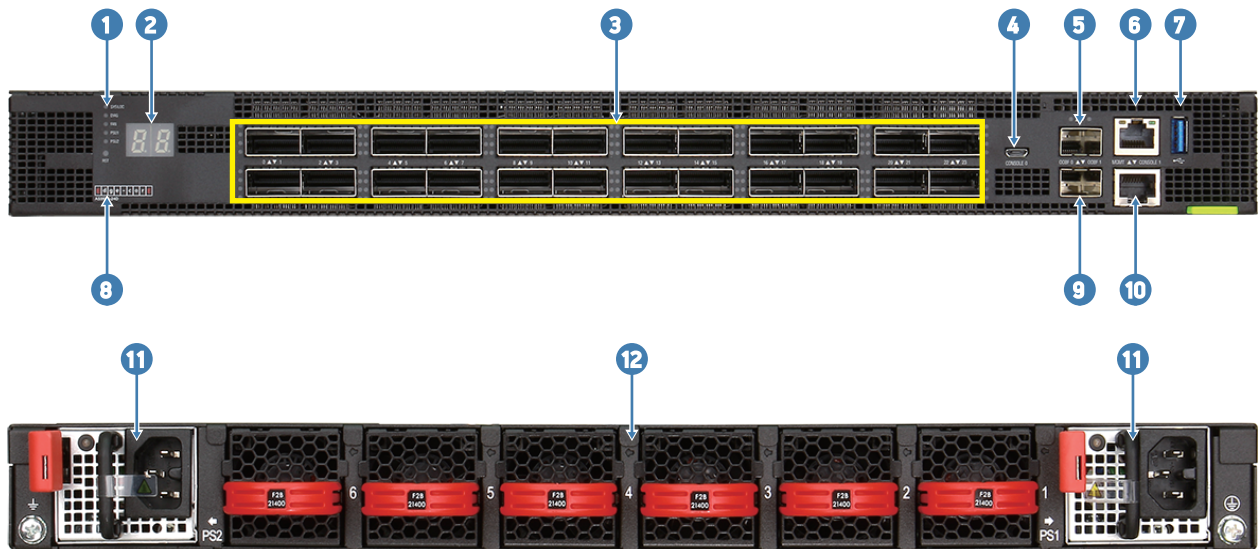
- Carrier Ethernet core, metro/edge switches, and routers
- Data center switch/router
- Packet transport switch
- Mobile backhaul
- Enterprise switch and router



Software Supported

onle

Interfaces



Description

- | | |
|---------------------------|-------------------------|
| 1. System LEDs | 7. USB storage type 2.0 |
| 2. Dual 7-segment LED | 8. Reset button |
| 3. 400G QSFP-DD | 9. Out-of-band port 1 |
| 4. Micro USB console port | 10. RJ-45 console port |
| 5. Out-of-band port 0 | 11. 1+1 redundant PSUs |
| 6. RJ-45 management port | 12. 5+1 redundant fans |

Ports

- Switch Ports: 24 x 400 GbE QSFP-DD
Supports standard 25GE, 50GE configurations by breakout to 2 x 200GE, 4 x 100GE and 100GE
- Management ports:
 - 1 x RJ-45 serial console
 - 1 x RJ-45 10/100/1000BASE-T management
 - 2 x OOB SFP+ 10G
 - 1 x Type-A USB 2.0 port
 - 1 x Micro USB console

Key Components

- Switch Silicon: Broadcom BCM88795 (Ramon)
- CPU Module:
 - Intel® Xeon® Broadwell-DE 8 core 2.0 GHz
 - SDRAM DDR4 SO-DIMM 32 GB (16 GB x 2)
 - SPI Boot Flash Redundant (2 x 16 MB)
 - SSD: M.2 128GB
 - BMC module - ASPEED AST2600 (AS9926-24DB)
 - Dual 7-Segment LED

Performance

- Switching Capability: 9.6 Tbps

Physical and Environmental

- Dimensions (WxDxH): 438.4 mm x 536 mm x 43.1 mm
- Weight: 11.06 kg (24.38 lb)
- Fans: Hot-swappable 5 + 1 redundant fans
- Operating Temperature:
 - 5°C to 40°C (41°F ~ 104°F)
 - 5°C to 55°C (short-term); 55°C @sea-level.
- Operating Humidity: 5% ~ 95% non-condensing

LEDs

- QSFP-DD LED: Blue (400G), White (200G), Amber (100G)
- Management Port LED:
 - Green (10G), Amber (1G), Flashing: Activity
- System LEDs:
 - PSU1, PSU2, FANS, DIAG, LOC
 - Green/Amber: Normal/Fault
- Reset button

Power

- PSUs: 1+1 Redundant, load-sharing, hot-swappable
- AC or -48 VDC Support
- Input Voltage: 90 to 240 VAC at 50~60 Hz, -36 to -72 VDC
- Max PSU power: 1300 W
- Max power usage: 800 W

Regulatory:

- EMI
 - CE Mark
 - FCC
 - VCCI
 - BSMI
- Safety
 - CB
 - UL
 - CCC
 - BSMI
- Environmental:
 - GR-63-CORE GR-1089-CORE
 - NEBS Level 3.0
- RoHS-2.0 Compliant
- Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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Ordering Information

Base model: AS9926-24D, 24 x 400 GbE QSFP-DD fixed ports. ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
AS9926-24D-O-AC-F	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	without power cord
AS9926-24D-O-AC-F-US	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	N. America
AS9926-24D-O-AC-F-EU	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	EU
AS9926-24D-O-AC-F-UK	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	UK
AS9926-24D-O-AC-F-CN	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	CN
AS9926-24D-O-AC-F-TW	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	TW
AS9926-24D-O-AC-F-JP	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	JP
AS9926-24D-O-48V-F	Intel® D-1548 8C	Modular Dual DC PSUs	Front to Back Airflow	N/A

Base model: AS9926-24DB, 24 x 400 GbE QSFP-DD fixed ports. ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
AS9926-24DB-O-AC-F	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	without power cord
AS9926-24DB-O-AC-F-US	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	N. America
AS9926-24DB-O-AC-F-EU	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	EU
AS9926-24DB-O-AC-F-UK	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	UK
AS9926-24DB-O-AC-F-CN	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	CN
AS9926-24DB-O-AC-F-TW	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	TW
AS9926-24DB-O-AC-F-JP	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	JP
AS9926-24DB-O-48V-F	Intel® D-1548 8C	Modular Dual DC PSUs	Front to Back Airflow	N/A

Base model: FRU

Model Number	CPU Module	PSU	Airflow	Region (power cord)
AS9926-24D/24DB-FAN			Front to Back Airflow	
AS9926-24D/24DB-RAIL KIT				
FSH082-610G		AC PSU		
FSJ033-610G		DC 48 V PSU		