

Core Router

AS7926-40XKFB



Interconnected with the Edgecore COR580 (Ramon Spine), COR550 forms a distributed chassis or a spine and leaf architecture to build a scalable and flexible network infrastructure that provides high throughput bandwidth for routing, packet processing, and efficient traffic management.

The COR550 open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source option Open Network Linux, plus commercial NOS offerings.

Key Features and Benefits

- High-performance 100GbE core router for telecom and data center applications
- Incorporates Broadcom StrataDNX™ Jericho2 silicon for non-blocking line-rate performance
- High capacity external TCAM (BCM16K) for expandable table sizes and statistics
- Consists of 40 x 100G QSFP28 and 13 x 400G QSFP-DD fabric interfaces
- Front-to-back airflow SKU, carrier grade fan filter
- Hot-swappable, load-sharing, and 1+1 redundant DC-DC/AC-DC PSUs
- 4+1 redundant, hot-swappable fan modules
- Synchronous Ethernet, IEEE 1588v2 PTP, Timing synchronization stack interfaces
- Compact design, 635 mm depth
- High operating temperature, up to 55° C
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.

Applications

- Disaggregated core and edge router
- Standalone 100GbE aggregation core router



Freedom
of choice



Greater
control



Rapid
innovation

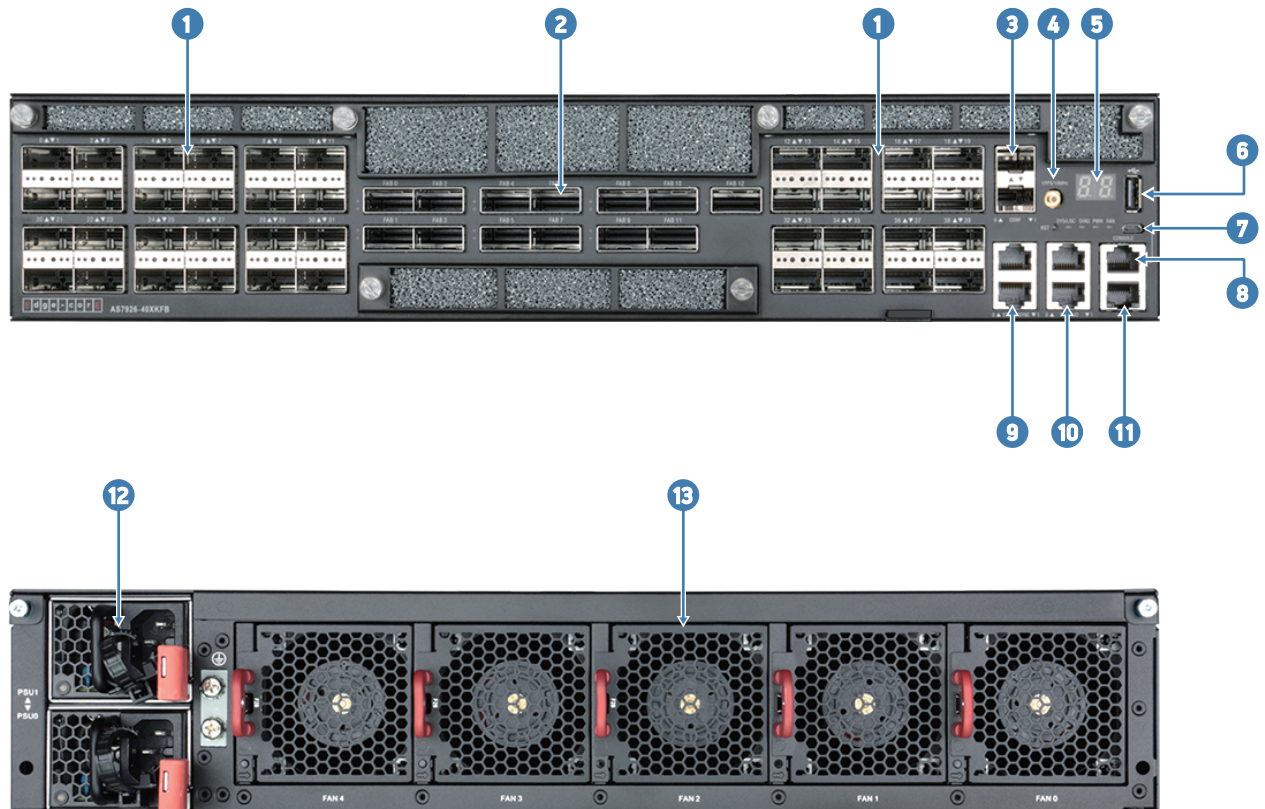


Reduced
CAPEX and OPEX

Free Software Included



Interfaces



Description

- | | |
|-----------------------------------|----------------------------------|
| 1. 40 x 100G QSFP28 ports | 8. 1 x RJ-45 console port |
| 2. 13 x 400G QSFP-DD fabric ports | 9. 2 x RJ-45 stacking-sync ports |
| 3. 2 x 10G SFP+ OOB ports | 10. 2 x RJ-45 PPS/ToD ports |
| 4. 1 x PPS | 11. 1 x RJ-45 management port |
| 5. 2 x Digital LCD | 12. 2 x PSUs |
| 6. 1 x USB Type-A | 13. 4+1 redundant fans |
| 7. 1 x Micro USB console port | |

Ports

- Switch Ports:
 - 40 x 100 GbE QSFP28 + 13 x 400 GbE QSFP-DD
 - Support 40GE, 50GE and 100GE modes
 - Support standard 10GE, 25GE, 50GE configurations by using DAC breakout cables into 2 x 50GE, 4 x 25GE, or 4 x 10GE.
- Management ports on port side:
 - 1 x RJ-45 serial console port
 - 1 x RJ-45 10/100/1000BASE-T management port
 - 2 x RJ-45 PPS/ToD ports
 - 2 x RJ-45 stacking synchronization ports
 - 2 x OOB SFP+ 10G management ports
 - 1x USB 2.0 port Type A
 - 1 x Micro USB console port

Key Components

- Switch Silicon: BCM88690 (Jericho 2)
- TCAM: BCM16K (OP2)
- CPU Modules:
 - Intel® Xeon® D-1548 processor 8C 2.0 GHz
 - SDRAM DDR4 SO-DIMM 64 GB (32 GB x 2)
 - SSD: M.2 128 GB
- BMC: ASPEED AST2600

Performance

- Throughput: 4.0 Tbps (non-blocking)
- High capacity external TCAM (BCM16K) for expanded table sizes and statistics

Physical and Environmental

- Dimensions (WxDxH): 440 x 635 x 87 mm (17.32 x 25.0 x 3.43 in)
- Weight: 39 kg (GW), 19 kg (NW)
- Fans: Hot-Swappable 4+1 redundant fans
- Operating Temperature: 0°C to 55°C (6000 ft in altitude)
- Operating Humidity: 0% to 90%

Power

- 1+1 Redundant, Load-Sharing, and Hot-Swappable PSUs
- 48 VDC Power Supply: Input Voltage: 40 to 72 VDC
- AC Power Supply: Input Voltage: 90 to 264 VAC at 50-60 Hz
- Power Consumption: 1400 W(Max), 1100 W (Typical)

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

Regulatory Compliance

- Safety Compatibility
 - UL (CAN/CSA 22.2 No 60950-1 & UL60950-1)
 - IEC 62368-1:2014
 - CB (IEC/EN60950-1)
 - CCC (GB4943.1-2011)
 - BSMI (CNS14336-1)
- Electromagnetic Compatibility
 - CE Mark
 - FCC Title 47, Part 15, Subpart B Class A
 - VCCI Class A
- Environmental
 - RoHS-2.0 Compliant
 - Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)
- NEBS
 - GR-63-CORE GR-1089-CORE (NEBS Level 3)*

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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* Pre-test. Certificate is by request with fees.

Ordering Information

Base model: AS7926-40XKFB; Intel® Xeon® D-1548 8C, 64GB RAM, 40 x 100 GbE QSFP28 + 13 x 400 GbE QSFP-DD fixed ports. ONIE software installer.

Lite model: AS7926-40XKFB; Intel® Xeon® D-1548 8C, 32GB RAM, 40 x 100 GbE QSFP28 + 13 x 400 GbE QSFP-DD fixed ports. ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (power cord)
7926-40XKFB-O-AC-F	FNPZZ7640009A	Modular Dual AC PSUs	Front-to-Back airflow	N/A
7926-40XKFB-O-AC-F-US	FNPZZ7640401A	Modular Dual AC PSUs	Front-to-Back airflow	N. America
7926-40XKFB-O-AC-F-EU	FNPZZ7640201A	Modular Dual AC PSUs	Front-to-Back airflow	EU
7926-40XKFB-O-AC-F-UK	FNPZZ7640301A	Modular Dual AC PSUs	Front-to-Back airflow	UK
7926-40XKFB-O-AC-F-JP	FNPZZ7640501A	Modular Dual AC PSUs	Front-to-Back airflow	JP
7926-40XKFB-O-AC-F-TW	FNPZZ7640T01A	Modular Dual AC PSUs	Front-to-Back airflow	TW
7926-40XKFB-O-AC-F-CN	FNPZZ7640701A	Modular Dual AC PSUs	Front-to-Back airflow	CN
7926-40XKFB-O-48V-F	FNPZZ7640003A	Modular Dual DC PSUs	Front-to-Back airflow	N/A
7926-40XKFB-O-AC-F Lite	FNPZZ7640001A	Modular Dual AC PSUs	Front-to-Back airflow	N/A