

100GbE Core Router

AS7926-40XKFB



AS7926-40XKFB is a high performance 100GbE disaggregated core router designed with Broadcom StrataDNX Jericho2 silicon and consists of fixed 40 x 100GE QSFP28 Network Interfaces (NIF) plus 13 x 400GE QSFP-DD Fabric Interfaces (FIF) in a 2RU form factor.

When the AS7926-40XKFB is interconnected with the Edgecore AS9926-24D (Ramon), AS7926-40XKFB forms a distributed chassis architecture to build a scalable and flexible network infrastructure that provides high throughput bandwidth for routing, packet processing, and efficient traffic management.

This 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 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

Applications

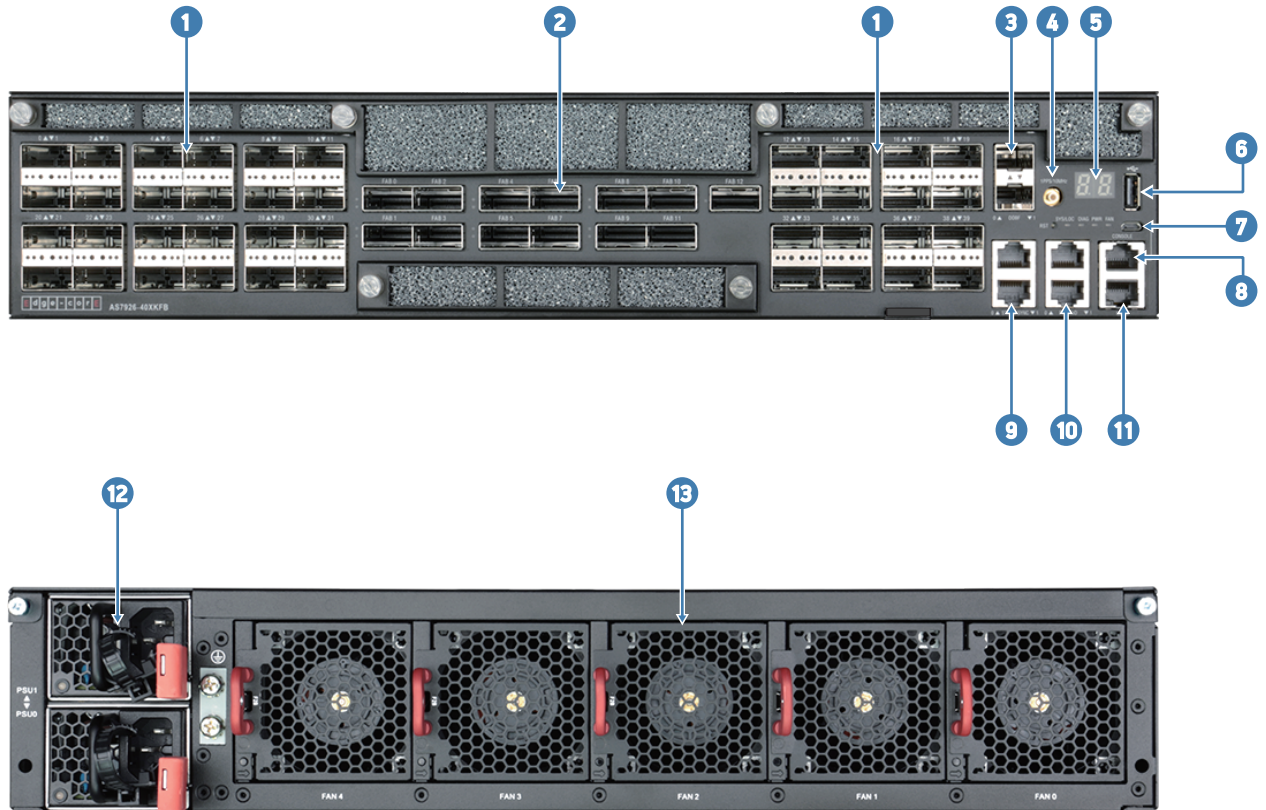
- Disaggregated core and edge router
- Standalone 100GbE aggregation core router



Software Supported



Interfaces



Description			
1	40 x 100G QSFP28 ports	8	1 x RJ-45 console port
2	13 x 400G QSFP-DD ports	9	2 x RJ-45 stacking-sync ports
3	2 x 10G SFP+ OOBF 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
- CPU Modules:
 - Intel® Xeon® D-1548 processor 8C 2.0 GHz
 - SDRAM DDR4 SO-DIMM 32 GB (16 GB x 2)
 - SSD: M.2 128 GB
- BMC: ASPEED AST2600

Performance

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

Physical and Environmental

- Dimensions (WxDxH): 440 mm x 635 mm x 87 mm
- Weight: 39 KG (GW), 19 KG (NW)
- Fans: Hot-Swappable 4+1 redundant fans
- Operating Temperature: 0°C to 55°C (6000ft 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: 1400W(Max), 1100W (Typical)

Regulatory and compliance:

- Safety
 - 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.

© Copyright 2021 Edgecore Networks Corporation. The information contained herein is subject to change without notice. This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered by Edgecore Networks Corporation. Edgecore Networks Corporation shall not be liable for technical or editorial errors or omissions contained herein.

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

Ordering Information

Base model: AS7926-40XKFB, 40 x 100 GbE QSFP28 + 13 x 400 GbE QSFP-DD fixed ports. ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
AS7926-40XKFB-O-AC-S-US	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	N. America
AS7926-40XKFB-O-AC-S-EU	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	Europe
AS7926-40XKFB-O-AC-S-UK	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	UK
AS7926-40XKFB-O-AC-S-JP	Intel® D-1548 8C	Modular Dual AC PSUs	Front to Back Airflow	Japan
AS7926-40XKFB-O-48V-S	Intel® D-1548 8C	Modular Dual DC PSUs	Front to Back Airflow	NA