

## Cell Site Router

AS7535-28XB



Edgecore CSR440 is an open disaggregated cell site gateway platform that provides a combination of 1/10/25Gbps, 50/100Gbps, and 100/400Gbps interfaces, utilizing a powerful Qumran family merchant silicon and an Intel Xeon x86 processor with hyper threading technology providing optimized performance for service provider access and aggregation networks.

CSR440 is a temperature hardened design product, able to operate at a wide operational temperature range from -40°C to 65°C, and with redundant/hot swappable power modules and 5+1 high efficient modular fans that provide high availability and hassle-free maintenance for mission critical applications, making the hardware an ideal choice for current LTE and emerging 5G mobile xhaul network solutions.

CSR440 is pre-installed with ONIE (Open Network Install Environment) to provide freedom of choice and flexibility for preferred NOS(Network Operating System) integrated with user applications.

### Key Features and Benefits

- Open disaggregated cell site gateway for 5G mobile xhaul networks.
- 24 x 25G SFP28, 2 x 100G QSFP28 and 2 x 400G QSFP-DD fixed ports.
- Supports IEEE1588v2 and SyncE functions in hardware.
- Supports TSN (Time-Sensitive Networking) IEEE 802.1CM in hardware.
- Rack mountable in standard 19" racks.
- All ports and PSUs on front; fan modules on rear.
- Hot-swappable, load sharing, redundant AC/48VDC PSUs.
- Hot-swappable 5+1 redundant fan modules.
- Management: Ethernet and console RJ-45 ports; USB storage port.
- Pre-loaded with Open Network Install Environment (ONIE).
- Compatible with Open Network Linux (ONL).



Freedom  
of choice



Greater  
control



Rapid  
innovation

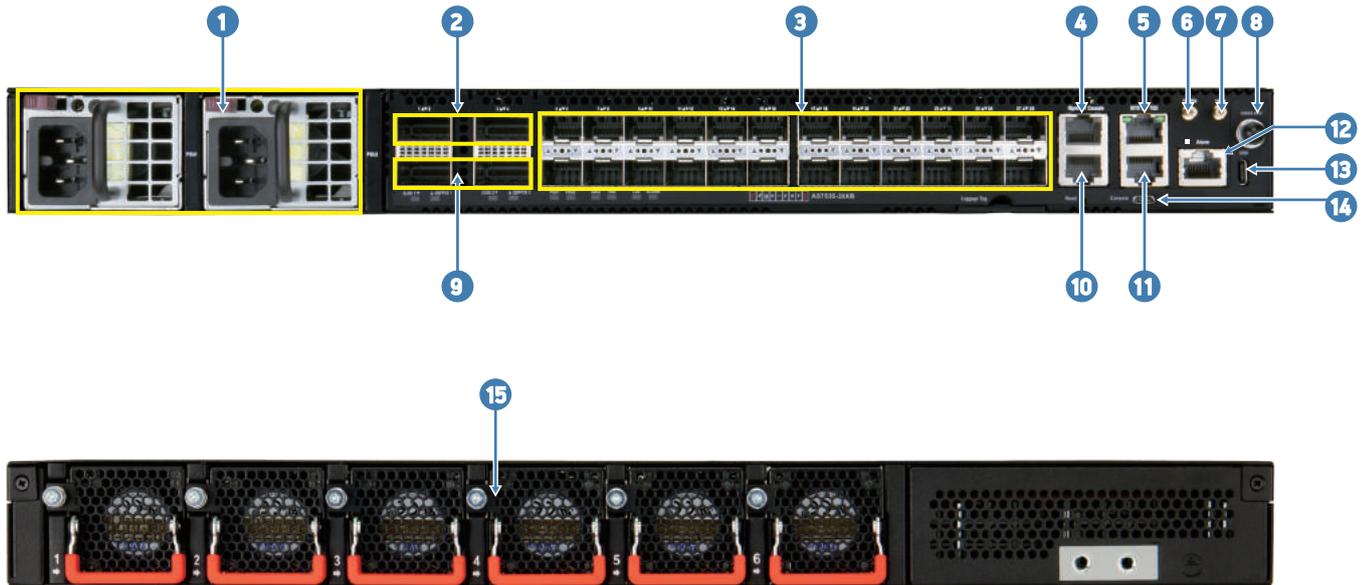


Reduced  
CAPEX and OPEX

Free Software Included



Interfaces



Description

1. Power supply 1+1 DC/AC	9. 2 x 50G/100G/400G QSFP-DD Ethernet Ports
2. 2 x 50G/100G QSFP28 Ethernet ports	10. 1 x RJ-45 console port
3. 24 x 10G/25G SFP28 Ethernet ports	11. 1 x TOD RJ-45 port
4. 1 x RJ-45 management port	12. 1 x Alarm port
5. 1 x BITS port	13. USB Type C storage port
6. 1 x 10MHz I/O	14. USB console port
7. 1x PPS I/O	15. Hot-swappable 5 + 1 redundant fans
8. GNSS antenna input	

## Ports

- Switch Ports
  - 24 x SFP28 (each supports 1/10 GbE or 25 GbE)
  - 2 x 100G QSFP28 (each supports 50/100 GbE)
  - 2 x 400G QSFP-DD (each supports 50/100/200/400 GbE)
- Management Ports on Front Panel:
  - 1 x RJ-45 serial console
  - 1 x RJ-45 1000BASE-T management Ethernet port (MGMT)
  - 1 x USB Type C storage port
  - 1 x Micro USB port
  - 1 x RJ-45 Alarm port
- Clocking and Timing ports
  - 1 x 1PPS I/O port
  - 1 x 10MHz I/O port
  - 1 x Time of day (ToD) RJ-45 port
  - 1 x Building-Integrated Timing System port (BITS) RJ-45 port
- GNSS Antenna: 1 x GNSS antenna input port
- Supported Transceivers and Cables:
  - 1000BASE-SX/LX/EX/ZX
  - 10GBASE-SR/LR/ER/ZR
  - 25GBASE-SR/LR
  - 100GBASE-SR4/LR4/ER4/ZR4/PSM4-2
  - 400GBASE-SR8/DR4/FR4
  - Note: More optics and detailed cabling information can be found at [www.edge-core.com](http://www.edge-core.com).

## Key Components

- Switch Silicon: Broadcom BCM88843
- CPU Modules:
  - Processor: Intel Broadwell-DE D-1539 1.6GHz 8-Core
  - Memory: DDR4 SO-DIMM 2x 8GB SDRAM with ECC support
  - Storage: 1 x 128GB mSATA SSD

## Performance

- High performance packet processor :
  - Switching Capacity: 800 Gbps full-duplex
  - Packet Throughput: 600 Mpps processing rate

## Physical and Environmental

- Dimensions (WxDxH): 438.4 x 300 x 43.3 mm
- Weight: 7.5 kg (NW) 16.53 lb
- Fans: Hot-swappable 5+1 redundant fans
- Operating Temperature: -40°C to 65°C (-40°F to 149°F)
- Storage Temperature: -40°C to 85°C (-40°F to 185°F)
- Operating Humidity: 5% to 95% non-condensing

## Power

- 48 VDC Power Supply:
  - 600 W PSU
  - 44 – -60 VDC input
  - Front-to-back airflow
  - Supports load-sharing function
- AC Power Supply:
  - 600 W PSU
  - 100-240 VAC input
  - Front-to-back airflow
  - Supports load-sharing function

## Power Consumption

- Max: 383.6 W
- Typical: 164.03 W

\*Certification is by request with fees.

## Safety

- UL (CAN/CSA 22.2 No 62368-1 & UL62368-1)
- CB (IEC/EN60950-1 & IEC/EN62368-1)
- CCC (GB4943.1-2011)\*
- BSMI (CNS15598-1)\*

## Electromagnetic Compatibility

- CE Mark
  - EN 55032 Class A
  - EN 55024 (Immunity) for Information Technology Equipment
  - EN 55035 Class A
  - EN 61000-3-3
  - EN 61000-3-2
- FCC Title 47, Part 15, Subpart B Class A
- VCCI Class A
- CNS 15936 (BSMI)\*
- CCC (GB9254-2008)\*

## Environmental

- NEBS Level 3 compliance (Pre-test)\*
- Bump: IEC60068-2-29- packaged
- Shock: ETSI EN 300 019-2-3 -Operational Tests, Class T3.2 op
- RoHS 2.0 Compliant
- WEEE Standards: The switches complied with the following WEEE standards: Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

## Warranty

Please check [www.edge-core.com](http://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](http://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](http://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: AS7535-28XB, 24 x SFP28, 2 x QSFP28, 2 x QSFP-DD fixed ports. ONIE software installer.**

Model Number	Part Number	PSU	Airflow	Region (power cord)
AS7535-28XB-O-AC-F	FOPEC7332005A-C	Modular Dual AC PSUs	Front to Back Airflow	N/A
AS7535-28XB-O-AC-F-US	FOPEC7332401A-C	Modular Dual AC PSUs	Front to Back Airflow	US
AS7535-28XB-O-AC-F-UK	FOPEC7332301A-C	Modular Dual AC PSUs	Front to Back Airflow	UK
AS7535-28XB-O-AC-F-EU	FOPEC7332201A-C	Modular Dual AC PSUs	Front to Back Airflow	EU
AS7535-28XB-O-AC-F-JP	FOPEC7332501A-C	Modular Dual AC PSUs	Front to Back Airflow	JP
AS7535-28XB-O-AC-F-TW	FOPEC7332T01A-C	Modular Dual AC PSUs	Front to Back Airflow	TW
AS7535-28XB-O-AC-F-CN	FOPEC7332701A-C	Modular Dual AC PSUs	Front to Back Airflow	CN
AS7535-28XB-O-48V-F	FOPEC7332002A-C	Modular Dual DC PSUs	Front to Back Airflow	N/A