

CELL SITE ROUTER

AS7535-28XB



The 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

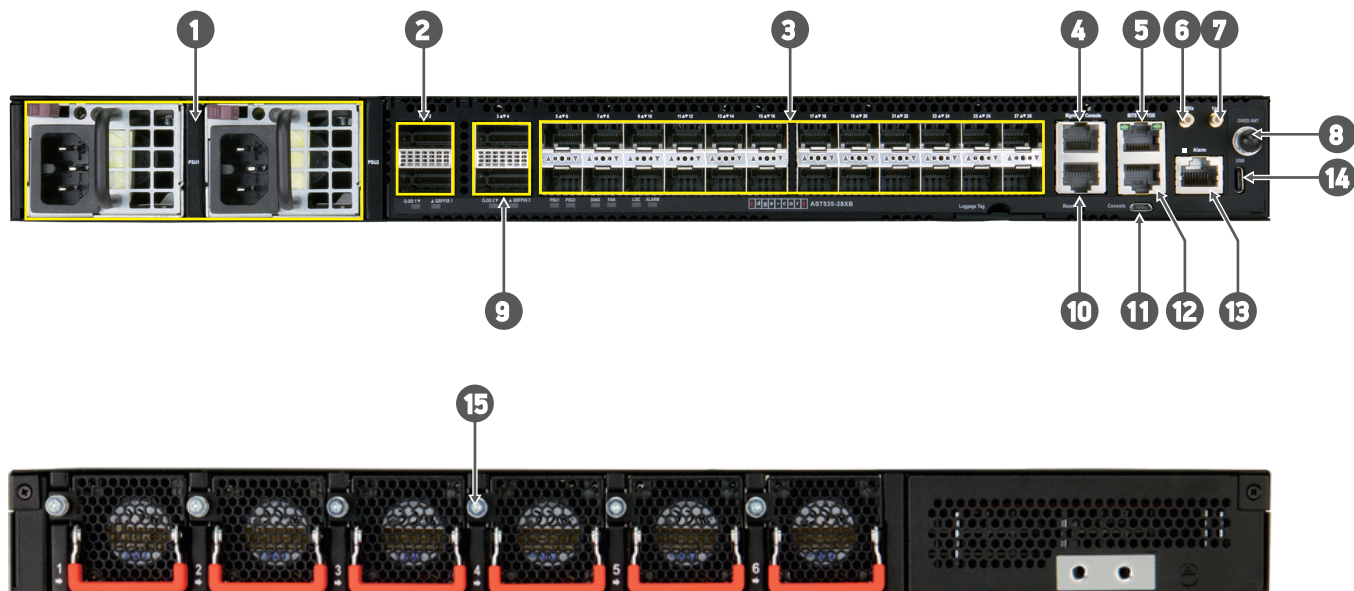
- Open disaggregated cell site gateway for mobile fronthaul, backhaul, and O-RAN networks.
- 24 x 25G SFP28, 2 x 100G QSFP28 and 2 x 400G QSFP-DD fixed ports.
- Supports IEEE1588v2 and SyncE functions in hardware.
- Supports TSN (Time-Sensitive Networking) IEEE 802.1CM in hardware.
- Rack mountable in 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).



Free Software Included



Interfaces



Description

- | | |
|---|--|
| 1. Power supply | 9. 2 x 50G/100G QSFP28 Ethernet ports |
| 2. 2 x 50G/100G/400G QSFP-DD Ethernet ports | 10. 1 x RJ-45 console port |
| 3. 24 x 10G/25G SFP28 Ethernet ports | 11. USB console port |
| 4. 1 x RJ-45 management port | 12. 1 x TOD RJ-45 port |
| 5. 1 x BITS port | 13. 1 x Alarm port |
| 6. 1 x 10MHz I/O | 14. Micro USB Type-B console port |
| 7. 1 x 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)
 - 1 x Micro USB console 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.

Key Components

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

Performance

- 800 Gbps bidirectional switching capacity
- 600 Mpps packet 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 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

PSU

- DC Input: -44 - -60V, 15.5-9.6 A, per PS
- AC Input: 100V-240V, 6.0-2.4 A, per PS

Power Consumption

- Max: 383.6 W
- Typical: 164.03 W
- Minimum: 78.68 W

Electromagnetic Compatibility

- Safety
 - UL (CAN/CSA 22.2 No 62368-1 & UL62368-1)
 - CB (IEC/EN60950-1 & IEC/EN62368-1)
 - 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)*

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 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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*Certification is by request with fees.

Ordering Information

Base Model: AS7535-28XB; Intel® Xeon® D-1539 1.6GHz 8-Core, 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-0-AC-F	FOPEC7332005A	Modular Dual AC PSUs	Front-to-Back Airflow	N/A
AS7535-28XB-0-AC-F-US	FOPEC7332401A	Modular Dual AC PSUs	Front-to-Back Airflow	US
AS7535-28XB-0-AC-F-UK	FOPEC7332301A	Modular Dual AC PSUs	Front-to-Back Airflow	UK
AS7535-28XB-0-AC-F-EU	FOPEC7332201A	Modular Dual AC PSUs	Front-to-Back Airflow	EU
AS7535-28XB-0-AC-F-JP	FOPEC7332501A	Modular Dual AC PSUs	Front-to-Back Airflow	JP
AS7535-28XB-0-AC-F-TW	FOPEC7332T01A	Modular Dual AC PSUs	Front-to-Back Airflow	TW
AS7535-28XB-0-AC-F-CN	FOPEC7332701A	Modular Dual AC PSUs	Front-to-Back Airflow	CN
AS7535-28XB-0-48V-F	FOPEC7332002A	Modular Dual DC PSUs	Front-to-Back Airflow	N/A