

Cell Site Router

AS7316-26XB



The Edgecore CSR320 is an open design cell site gateway platform that provides a combination of 1/10 Gbps, 25 Gbps, and 100 Gbps interfaces, utilizing merchant silicon and an x86 processor with optimized performance for service provider access and aggregation networks.

The CSR320 is a hardened design, able to operate at a wide operational temperature range from -40°C to 65°C, and with redundant/hot swappable power modules and redundant 4+1 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 backhaul network solutions.

The CSR320 is installed with ONIE (Open Network Install Environment) to provide freedom of choice for the preferred NOS (Network Operating System) integration with user applications.

Key Features and Benefits

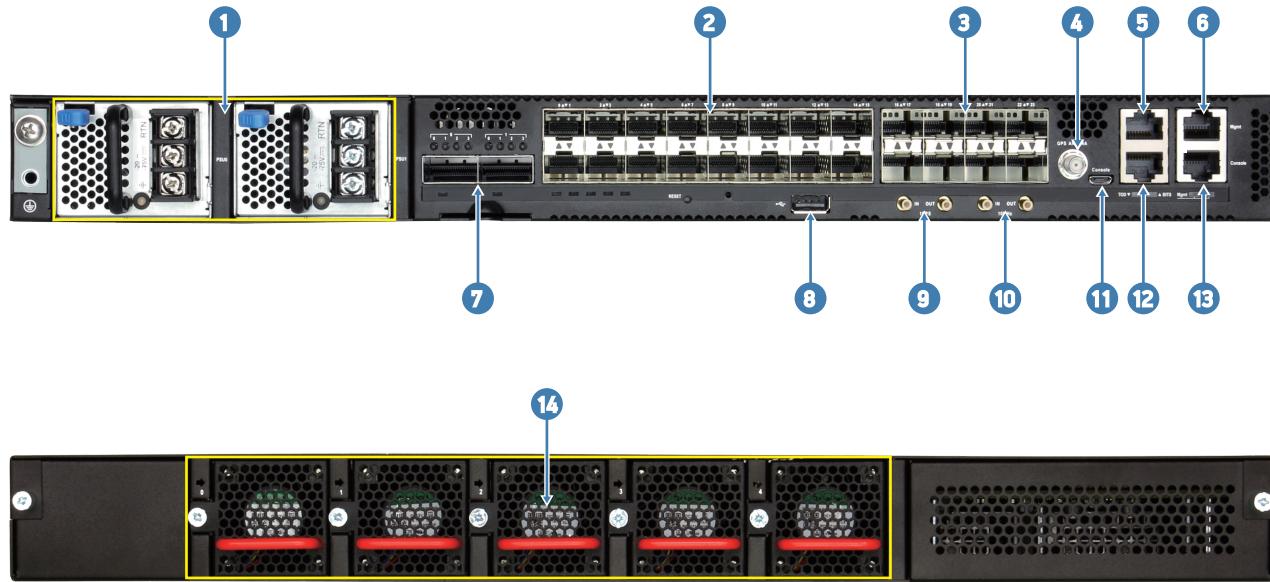
- Open design cell site gateway for mobile backhaul networks
- Conforms to OCP Cell Site Gateway Specifications
- 16 x 10G SFP+, 8 x 25G SFP28 and 2 x 100G QSFP28 fixed ports.
- Support IEEE1588v2 and SyncE functions in hardware.
- Rack mountable in standard 19" racks.
- Supports port-to-power airflow SKU.
- All ports and PSUs on front; fan modules on rear
- Hot-swappable, load sharing, redundant AC/48VDC PSUs.
- Hot swappable 4+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).



Software Supported



Interfaces



Description

- | | |
|------------------------------|--|
| 1. Power Supply | 8. USB storage port |
| 2. 16 x 10G SFP+ ports | 9. 1pps I/O |
| 3. 8 x 25G SFP28 ports | 10. 10MHz I/O |
| 4. GNSS antenna input | 11. Micro USB console port |
| 5. BITS port | 12. TOD RJ-45 port |
| 6. 1 x RJ-45 management port | 13. 1 x RJ-45 console port |
| 7. 2 x 100G QSFP28 ports | 14. Hot-swappable 4 + 1 redundant fans |

Ports

- Switch Ports
 - 16 x SFP+ (each supporting 10 GbE or 1 GbE)
 - 8 x SFP28 (each supporting 10 GbE or 25 GbE)
 - 2 x 100G QSFP28 (each supporting 1 x 40/100 GbE or 4 x 10/25 GbE or 2 x 50 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 A storage port
- Clocking and Timing ports
 - 1 x 1PPS Input port
 - 1 x 1PPS Output port
 - 1 x 10MHz Input port
 - 1 x 10MHz Output port
 - 1 x Time of day (ToD) RJ-45 port
 - 1 x Building-Integrated Timing System port (BITS)
- GNSS Antenna: 1 x GNSS antenna Input port

Key Components

- Switch Silicon: Broadcom Qumran-AX BCM88470
- CPU Modules:
 - Processor: Intel Broadwell-DE D-1519 1.5G 4C
 - Memory: DDR4 SO-DIMM 2x 8GB SDRAM with ECC support

Performance

- High performance packet processor :
 - Switching Capacity: 300 Gbps full-duplex
 - Packet Throughput: 300 Mpps processing rate

Physical and Environmental

- Dimensions (WxDxH): 438.4 x 299.8 x 43.3 mm
- Weight: 6.15 kg (NW), 8.9 kg (GW)
- Fans: Hot-swappable 4+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:
 - 400W PSU
 - 36-75VDC input
 - Front-to-back airflow
 - Supports load-sharing function
- AC Power Supply:
 - 400W PSU
 - 100-240V AC input
 - Front-to-back airflow
 - Supports load-sharing function
- Power Consumption: Approx. 230 W (Max), 170 W (Typical)

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
 - EN55032 Class A
 - EN55024 (Immunity) for Information Technology Equipment
 - EN 61000-3-3
 - EN 61000-3-2
- FCC Title 47, Part 15, Subpart B Class A
- VCCI Class A
- CNS 13438 (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 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 2020 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.

*Certification is by request with fees.

Ordering Information

Base model: AS7316-26XB; 16 x 10G SFP+, 8 x 25G SFP28 and 2 x 100G QSFP28 fixed ports; ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
7316-26XB-O-AC-F-US	Intel Xeon D-1519 1.5G	Dual AC PSUs	Port-to-Power airflow	N. America
7316-26XB-O-AC-F-EU	Intel Xeon D-1519 1.5G	Dual AC PSUs	Port-to-Power airflow	EU
7316-26XB-O-AC-F-UK	Intel Xeon D-1519 1.5G	Dual AC PSUs	Port-to-Power airflow	UK
7316-26XB-O-AC-F-JP	Intel Xeon D-1519 1.5G	Dual AC PSUs	Port-to-Power airflow	JP
7316-26XB-O-48V-F	Intel Xeon D-1519 1.5G	Dual DC PSUs	Port-to-Power airflow	N/A

Dimensions

