

## CELL SITE ROUTER

AS7315-27X



The Edgecore CSR310 is an open cell site gateway platform that is OCP Accepted and TIP DCSG Compliant. CSR310 features a combination of 1/10 Gbps, 25 Gbps, and 100 Gbps interfaces with optimized performance by utilizing merchant silicon, and standard x86 processor for access and aggregation networks.

With temperature hardened design, the CSR310 is able to operate at wide operational temperature range from -40°C to 65°C and it equipped with load-sharing redundant/hot-swappable PSUs and fan modules that provides high availability and hassle-free maintenance. In particular, CSR310 supports stacking option for scalability, and redundancy in resilient network topology.

The CSR310 builds in industry-leading network timing and synchronization functions that makes it an ideal solution for current LTE and emerging 5G mobile backhaul network. The CSR310 is installed with ONIE (Open Network Install Environment) that provides the freedom of choice for the preferred NOS (Network Operating System) integration.

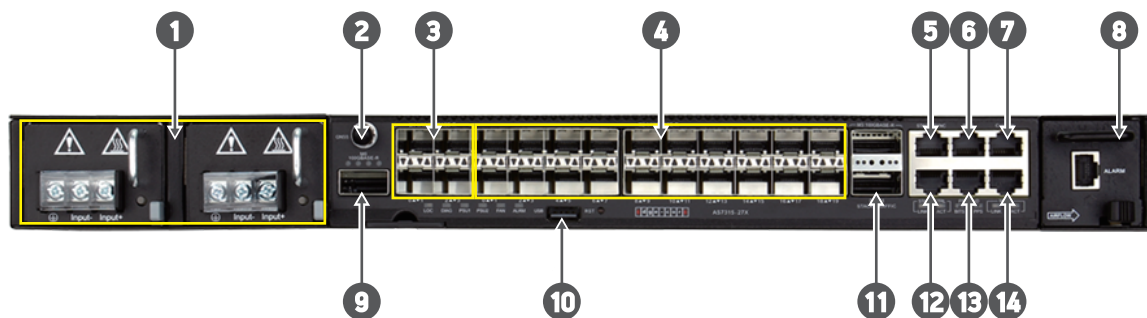
### Key Features and Benefits

- Open cell site gateway platform for mobile backhaul networks.
- 20 x 1G/10G SFP+, 4 x 1G/10G/25G SFP28 and 3 x 100G QSFP28 fixed ports.
- Full line-rate Layer 2 or Layer 3 forwarding of 300 Gbps.
- High resilience in stacking configuration of two CSR310 units
- Support IEEE1588v2 and SyncE functions in hardware
- Rack mountable in standard 19" racks.
- Supports side-to-side airflow SKU.
- All ports and PSUs are accessible at the front.
- Hot-swappable, load sharing, redundant AC/48VDC PSUs.
- Hot swappable redundant fan modules.
- Management: Ethernet and console RJ-45 ports; USB storage port.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE).
- Compatible with Open Network Linux (ONL).





## Interfaces



### Description

|                          |                                    |
|--------------------------|------------------------------------|
| 1. Power Supply          | 8. Fan Tray                        |
| 2. GNSS antenna input    | 9. 1 x 100G QSFP28 port            |
| 3. 4 x 25G SFP28 ports   | 10. USB storage port               |
| 4. 20 x 10G SFP+ ports   | 11. 2 x 100G QSFP28 stacking ports |
| 5. Stack Sync RJ-45 port | 12. Stack Control RJ-45 port       |
| 6. BITS port             | 13. TOD RJ-45 port                 |
| 7. RJ-45 console port    | 14. Management port (MGMT)         |

## Ports

- Switch Ports
  - 20 x SFP+ (each supporting 10 GbE or 1 GbE)
  - 4 x SFP28 (each supporting 1GbE, 10 GbE or 25 GbE)
  - 3 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 (storage)
- Clocking and Timing ports
  - Stacking Clock Input and Output ports
  - PRTC: ITU-T G.8272
  - Pulse-per-Second (PPS) input and output
  - Time-of-Day (TOD) input
  - Integrated GNSS receiver
- Stacking Interface
  - 2 out of 3 100G QSFP28 can be used for stacking
  - 1 x 1 GbE from CPU (control signal)
  - 1 x RJ45 for sync signals
  - Optics and cables for stacking:
    - QSFP28 DAC up to 2 m
    - QSFP28 AOC up to 30 m

## Key Components

- Switch Silicon: Broadcom BCM88470 Qumran-AX
- CPU module:
  - Processor: Intel® Atom C3508 4-Core
  - Memory: 16G RAM DDR4-2400
- Stratum 3E compliant oscillator (OCXO)
- SSD M.2, 32 Gbytes

## Performance

- 300 Gbps bidirectional switching capacity
- 300 Mpps packet processing rate
- Scales to 600 Gbps per node in stacked configuration (2 x CSR310)

## Physical and Environmental

- Dimensions (WxDxH): 440 x 300 x 44 mm (17.32 x 11.81 x 1.73 in)
- Weight 5.35 kg (11.79 lb), with two installed PSUs
- Installations to standard 19", 21", 23", and ETSI 600 mm racks or cabinets as well as OCP 21" open racks

## PSU

- DC Input: 36V -72V, 10 A
- AC Input: 100V-240V, 5 A
- Power Capacity: 300 W (Maximum)

## Software

- Switch is loaded with Open Network Install Environment (ONIE)
- Compatible with the following NOS options: Open Network Linux (ONL)

## Regulatory Compliance

- Safety Compatibility
  - EN/IEC 62368-1
- Electromagnetic Compatibility
  - EN 300 386 V1.6.1
  - Installation environment: telecommunication center
  - ITU-T K.80
  - FCC 47 CFR Part 15, Subpart B, Class A
  - EN 301 489-1 V2.1.1
  - EN 301 489-19 V2.1.0
  - EN 303 413 V1.1.1
  - Radio Equipment Directive 2014/53/EU

## Environmental

- Usage altitude 60 m below sea level (106 kPa air pressure) to 3000 m (70 kPa)
- Storage:
  - IEC60068-2-14
  - Temperature: -40°C to 70°C (-40°F to 158°F)
- Transportation:
  - ETSI EN 300 019-1-2 Class 2.3
  - Temperature: -40°C to +70°C (-40°F to +158°F)
- Operating Conditions:
  - [ETSI EN 300 019-1-3] Class 3.2
  - Temperature range: -40°C to +65°C (-40°F to 149°F)
  - Relative humidity: 5% to 95%
- The product complies with the current version of the following EU directives:
  - RoHS
  - WEEE
  - REACH

## 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

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## Ordering Information

**Base Model: AS7315-27X; Intel® Atom C3508 4-Core, 20 x 1G/10G SFP+, 4 x 1G/10G/25G SFP28 and 3 x 100G QSFP28 fixed ports. ONIE Software Installer.**

| Model Number       | Part Number   | PSU          | Airflow              | Region (Power Cord) |
|--------------------|---------------|--------------|----------------------|---------------------|
| 7315-27X-0-AC-S-US | F0PZZ5627400A | Dual AC PSUs | Side-to-Side Airflow | US                  |
| 7315-27X-0-AC-S-UK | F0PZZ5627300A | Dual AC PSUs | Side-to-Side Airflow | UK                  |
| 7315-27X-0-AC-S-EU | F0PZZ5627200A | Dual AC PSUs | Side-to-Side Airflow | EU                  |
| 7315-27X-0-AC-S-JP | F0PZZ5627500A | Dual AC PSUs | Side-to-Side airflow | JP                  |
| 7315-27X-0-48X-S   | F0PZZ5627004A | Dual DC PSUs | Side-to-Side Airflow | N/A                 |

### Field replacement units

| Model Number  | Part Number   | Description                       |
|---------------|---------------|-----------------------------------|
| CRXT-T0T12BS  | 131700000434A | AS7315-27X DC PSU (Black Housing) |
| SPAACTN-03BG  | 131700000453A | AS7315-27X AC PSU (Black Housing) |
| FAN-1U-1x1J-S | F0TZZ5627001A | AS7315-27X Fan Tray Spare Part    |