

Cell Site Router

AS7315-30X



The Edgecore CSR300 is a hardened open cell site gateway platform that 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 CSR300 is able to operate at wide operational temperature range from -40°C to 65°C and it equipped with redundant/hot swappable power and fan modules that provides high availability and hassle-free maintenance.

The CSR300 builds in industry leading network timing and synchronization functions that makes it ideal solution for current LTE and emerging 5G mobile backhaul network. The CSR300 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
- 4 x 1G RJ45, 16 x 1G/10G SFP+, 8 x 1G/10G/25G SFP28 and 2 x 100G QSFP28 fixed ports
- Full line-rate Layer 2 or Layer 3 forwarding of 300 Gbps
- Support IEEE1588v2 and SyncE functions in hardware
- Rack mountable in standard 19" racks
- Supports side-to-side airflow SKU
- All ports and PSUs on front
- 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
- Hardware switch pre-loaded with Open Network Install Environment (ONIE)
- Compatible with Open Network Linux (ONL)



Freedom
of choice



Greater
control



Rapid
innovation

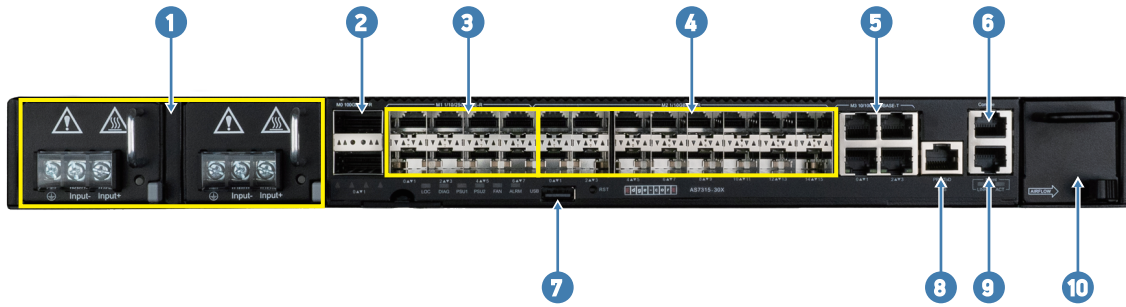


Reduced
CAPEX and OPEX

Free Software Included



Interfaces



| Description | |
|--------------------------|---------------------------|
| 1. Power Supply | 6. RJ-45 console port |
| 2. 2 x 100G QSFP28 ports | 7. USB storage port |
| 3. 8 x 25G SFP28 ports | 8. TOD RJ-45 port |
| 4. 16 x 10G SFP ports | 9. Management port (MGMT) |
| 5. 4 x 1G RJ-45 ports | 10. Fan Tray |

Ports

- Switch Ports
 - 4 x 1G RJ45
 - 16 x SFP+ (each supporting 10 GbE or 1 GbE)
 - 8 x SFP28 (each supporting 1GbE, 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
- Clocking and Timing ports
 - Pulse-per-Second (PPS) input and output
 - Time-of-Day (TOD) input

Key Components

- Switch Silicon: Broadcom BCM88470 Qumran-AX
- CPU module:
 - Processor: Intel® Denverton C3308 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

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 inch open racks

PSU

- DC Input: 36V -72V, 10 A
- AC Input: 100V-240V, 5 A
- Power Capacity: 290 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 62368-1:2014 + AC:2015
 - IEC 62368-1:2014
- Electromagnetic Compatibility
 - EN 300 386 V1.6.1 (2012-09)
- Installation environment: telecommunication center
- ITU-T K.80:07/2009
- 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
- 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 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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Ordering Information

Base model: AS7315-30X; Intel® Denverton C3308; 4 x 1G RJ45, 16 x 1G/10G SFP+, 8 x 1G/10G/25G SFP28 and 2x QSFP28 fixed ports. ONIE software installer.

| Model Number | Part Number | PSU | Airflow | Region (power cord) |
|------------------|---------------|--------------|------------------------|---------------------|
| 7315-30X-0-AC-S | FOPEC5630004A | Dual AC PSUs | Left-to-Right air flow | N/A |
| 7315-30X-0-AC-R | FOPEC5630009A | Dual AC PSUs | Right-to-Left air flow | N/A |
| 7315-30X-0-48V-S | FOPEC5630001A | Dual AC PSUs | Left-to-Right air flow | N/A |
| 7315-30X-0-48V-R | FOPEC5630007A | Dual AC PSUs | Right-to-Left air flow | N/A |

Field replacement units

| Model Number | Part Number | Description |
|---------------|---------------|-----------------------------------|
| CRXT-T0T12BS | 131700000434A | AS7315-30X DC PSU (Black Housing) |
| SPAACTN-03BG | 131700000453A | AS7315-30X AC PSU (Black Housing) |
| FAN-1U-1x1J-S | F0TZZ5627001A | AS7315-30X Fan Tray Spare Part |