

Cell Site Gateway AS7315-27X



The Edgecore AS7315-27X is an open cell site gateway platform that is OCP Accepted and TIP DCSG Compliant. AS7315-27X 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 AS7315-27X 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. In particular, AS7315-27X supports stacking option for scalability, and redundancy in resilient network topology.

The AS7315-27X builds in network timing and synchronization functions that makes it ideal solution for current LTE and emerging 5G mobile backhaul network. The AS7315-27X 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 AS7315-27X units
- 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).







of choice



control





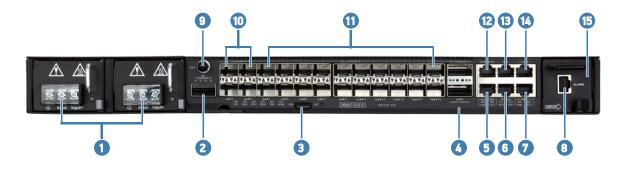


Software Supported





Interfaces



Des	Description						
1	Power Supply	9	GPS antenna port				
2	100G QSFP28 port	10	25G SFP28 ports				
3	USB storage port	11	10G SFP+ ports				
4	100G QSFP28 stacking ports	12	Stack Sync RJ-45 port				
5	Stack Control RJ-45 port	13	BITS port				
6	TOD RJ-45 port	14	RJ-45 console port				
7	Management port (MGMT)	15	Fan Tray				
8	Alarm RJ-45 port						

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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

1 alarm I/O

■ Clocking and Timing ports

Station 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, 3 Gbytes of DDR4
- CPU module: COM Express module type 7, Intel ATOM C3508 4 core @ 1.6GHz x86 processor, 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 AS7315-27X)

Software

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

Physical and Environmental

- Dimensions (WxDxH): 440 x 300 x 44 mm
- 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, 10A ■ AC Input: 100V-240V, 5A

■ Power Consumption :250W(Maximum)

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 $+70^{\circ}$ C (-40° F to $+158^{\circ}$ 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.

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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.

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Ordering Information

Base model: AS7315-27X, 20 x 1G/10G SFP+, 4 x 1G/10G/25G SFP28 and 3 x 100G QSFP28 fixed ports. ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
7315-27X-0-AC-S-US	Intel Atom C3508	Dual AC PSUs	Side-to-Side airflow	US
7315-27X-0-AC-S-UK	Intel Atom C3508	Dual AC PSUs	Side-to-Side airflow	UK
7315-27X-0-AC-S-EU	Intel Atom C3508	Dual AC PSUs	Side-to-Side airflow	EU
7315-27X-0-AC-S-JP	Intel Atom C3508	Dual AC PSUs	Side-to-Side airflow	JP
7315-27X-0-48X-S	Intel Atom C3508	Dual DC PSUs	Side-to-Side airflow	N/A

Field replacement units

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

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