

CELL SITE ROUTER

AS5915-16X



The Edgecore AS5915-16X is a compact-sized open cell site gateway platform that provides a combination of 1GE and 10 GE interfaces utilizing merchant silicon and an x86 processor to optimize performance for mobile networks.

The AS5915-16X is a temperature-hardened design, able to operate at a wide operational temperature range from -40°C to 65°C, with built-in power boards in a compact size that provide high availability for mission-critical applications. The AS5915-16X also supports industry-leading network timing and synchronization in hardware that makes it a ideal for LTE and 5G mobile backhaul network solutions.

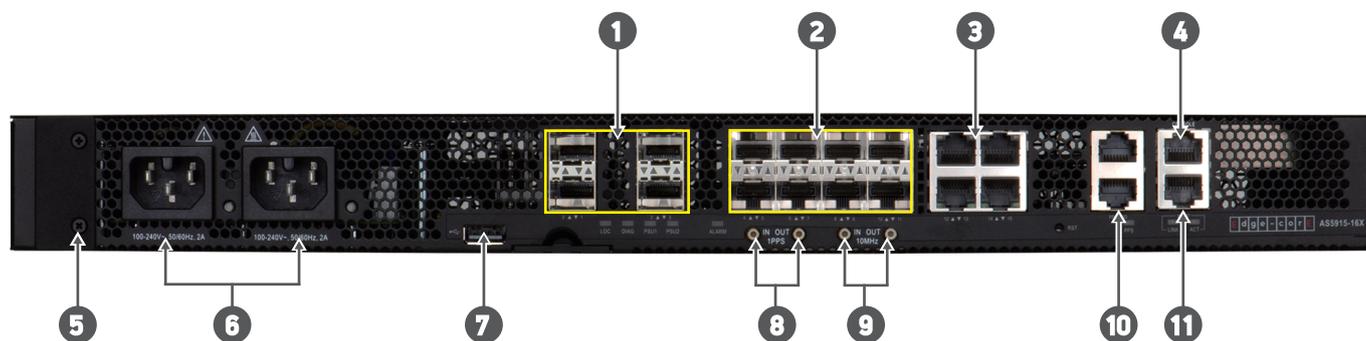
This AS5915-16X model is a passively cooled platform without fans. Deploying the unit with a front-to-back or back-to-front external airflow exceeding a speed of at least 1m/s (measured at any point on the product surface) is requested for cooling.

The AS5915-16X is installed with ONIE (Open Network Install Environment) that provides freedom of choice for the preferred NOS (Network Operating System) integration with user applications.

Key Features and Benefits

- 4 x 1G/10G SFP+, 8 x 1G SFP and 4 x 1G RJ-45 fixed ports.
- Supports IEEE1588v2 and SyncE functions in hardware.
- Full line-rate Layer 2 or Layer 3 forwarding speed of 32 Gbps
- Compact 1RU form factor. Temperature-hardened design with 240 mm depth.
- Fixed, load sharing, redundant AC/48VDC PSUs.
- Passive cooling design, no internal fans.
- Management: Ethernet and console RJ-45 ports
- Hardware switch pre-loaded with Open Network Install Environment (ONIE).
- Compatible with Open Network Linux (ONL).

Interfaces



Description

- | | |
|---------------------------|----------------------------------|
| 1. 4 x 10G SFP+ ports | 7. USB 2.0 |
| 2. 8 x 1G SFP ports | 8. 1pps Input/Output |
| 3. 4 x 1G RJ-45 ports | 9. 10MHz Input/Output |
| 4. 1G RJ-45 console port | 10. TOD/1PPS RJ-45 port |
| 5. Filter Slot (Optional) | 11. Management RJ-45 port (MGMT) |
| 6. PSU 1/PSU 2 (fixed) | |

Ports

- Switch Ports
 - 4 x SFP+ (each supporting 10 GE or 1 GE)
 - 8 x SFP (each supporting 1GE)
 - 4 x 100 / 1000 Base-T RJ-45 ports
- 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
 - TOD/1PPS (RJ-45)
 - 1PPS I/O
 - 10MHz I/O
- Supported Transceivers and Cables:
 - 1000BASE-SX/LX/EX/ZX
 - 10GBASE-SR/LR/ER/ZR
 - 10G-DAC/AOC Cable
 - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Components

- Switch Silicon: Broadcom BCM88273 32Gbps Qumran-UX
- CPU module:
 - Processor: Intel® Atom C3308 2-Core
 - Memory: DDR4 8GB
 - Stratum 3E compliant oscillator (OCXO)
- Storage: SSD M.2, 32 Gbytes

Performance

- 32 Gbps bidirectional switching capacity
- 125 Mpps processing rate

Physical and Environmental

- Dimensions (WxDxH): 440 x 240 x 44 mm (17.32 x 9.45 x 1.73 in)
- Weight: 3.8 kg (8.38 lb), with two installed PSUs
- Installations to standard 19", 21" and 23" rack
- External Cooling Airflow: 1m/s or faster at any point on the surface of the device.

PSU

- DC Input: 36V-72V, -36V- -72V, 6A
- AC Input: 90-240V/50-60Hz, 2 A

Software

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

Regulatory Compliance

- Safety Compatibility
 - CSA/IEC/EN 60950-1
 - CSA/IEC/EN 62368-1
 - BSMI
- Electromagnetic Compatibility
 - EN 300 386 V1.6.1 EMC Report
 - FCC 47 CFR Part 15, Subpart B, Class A
 - CE
 - ICES-003 Issue 7: Class B
 - VCCI-CISPR32: Class B
 - UKCA

Environmental

- Operating Temperature: -40°C to +65°C *
 - Transportation Temperature: -40°C to +70°C
 - Storage Temperature (long term): -40°C to 70°C (-40°F to 158°F)
 - Operating Relative Humidity: 5% to 95%
 - Altitude: 5000 m at +40°C (for environmental testing, higher altitude less air density so less cooling)
 - The product complies with the current version of the following EU directives:
 - RoHS
 - WEEE
 - REACH
- *Supports transceivers at Operating Temperature: -40°C to +65°C

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: AS5915-16X; Intel® Atom C3308 2-Core; 4 x 1G RJ45, 8 x 1G SFP, 4 x 10G SFP+ fixed ports. ONIE Software Installer.

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS5915-16X-0-AC-PC	FOPEC5616001Z	Fixed Dual AC PSUs	Side-to-Side Airflow	N/A
AS5915-16X-0-48V-PC	FOPEC5616002Z	Fixed Dual DC PSUs	Side-to-Side Airflow	N/A