

Cell Site Gateway

Bare-Metal Hardware

AS5915-18X



The Edgecore AS5915-18X is an 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 AS5915-18X is a hardened design, able to operate at a wide operational temperature range from -40°C to 70°C, with built-in power boards and fans in a compact size that provides high availability for mission-critical applications. The AS5915-18X also supports network timing and synchronization in hardware that makes it ideal for current LTE and emerging 5G mobile backhaul network solutions.

The AS5915-18X 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

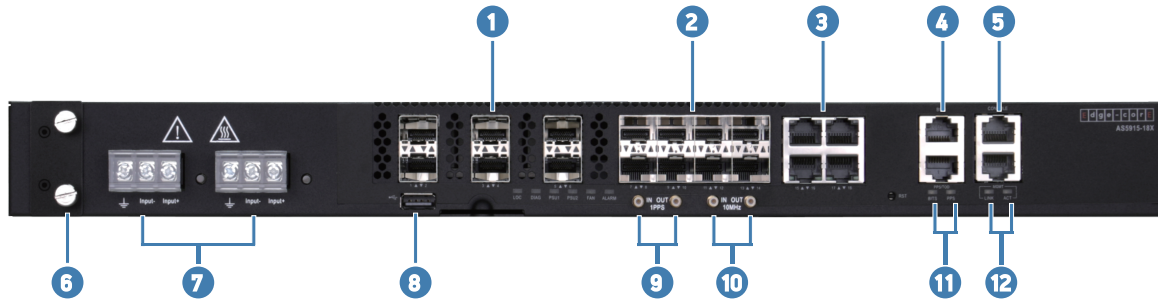
- Comply with TIP (Telecom Infra Project) OOPT (Open Optical and Packet Transport) DCSG Specifications.
- 6 x 1G/10G SFP+, 8 x 1G SFP and 4 x 1G RJ-45 fixed ports.
- Support IEEE1588v2 and SyncE functions in hardware.
- Full line-rate Layer 2 or Layer 3 forwarding of 64 Gbps.
- Compact 1RU. Harden design with 240 mm in depth.
- Supports side-to-side airflow SKU (with Air Filter option).
- Load sharing, redundant AC/48VDC PSUs.
- Built-in redundant fan modules.
- Management: Ethernet and console RJ-45 ports
- Hardware switch pre-loaded with Open Network Install Environment (ONIE).
- Compatible with Open Network Linux (ONL).



Software Supported



Interfaces



Description

1	10G SFP+ ports	7	PSU 1/PSU 2 (fixed)
2	1G SFP ports	8	USB 2.0
3	1G RJ-45 ports	9	1pps Input/Output
4	BITS port	10	10MHz Input/Output
5	1G RJ-45 console port	11	TOD/1PPS RJ-45 port
6	Filter Slot (Optional)	12	Management RJ-45 port (MGMT)

Ports

- Switch Ports
 - 6 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
- Clocking and Timing ports
 - BITS port (RJ-45)
 - TOD/1PPS (RJ-45)
 - 1PPS I/O
 - 10MHz I/O

Key Components

- Switch Silicon: Broadcom BCM88272 Qumran-UX
- CPU module: COM Express module, Intel ATOM C3308 2 core
- Memory: DDR4 8GB
- Storage: SSD M.2, 32 Gbytes

Performance

- 64 Gbps bidirectional switching capacity
- 300 Mpps packet processing rate

Physical and Environmental

- Dimensions (WxDxH): 440 x 240 x 44 mm
- Weight: 3.8 kg (8.38 lb), with two installed PSUs
- Installations to standard 19" and 23" rack

PSU

- DC Input : 36 V – 72 V, 6 A
- AC Input : 90-240V/50-60Hz, 2 A
- Power Consumption: 180W (Maximum)

Regulatory Compliance

Safety

- CSA 60950-1 Safety Report
- CSA 62368-1 Safety Report
- IEC / EN 60950-1 Safety Report
- IEC / EN 62368-1 Safety Report
- BSMI

EMC

- EN 300 386 V1.6.1 (2012–09) EMC Report
- FCC 47 CFR Part 15, Subpart B, Class A EMC Report
- CE
- ICES-003 Issue 7: 2020 Class B
- VCCI-CISPR32 :2016 Class B

Environmental

- Operating Temperature : -40°C to +70°C *
- Transportation Temperature: -40°C to +70°C
- Storage Temperature (long term): -5°C to +45°C
- 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 : AS5915-18X, 4 x 1G RJ45, 8 x 1G SFP, 6 x 10G SFP+ fixed ports. ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
AS5915-18X-O-48V-S	Intel Atom C3308	Fixed Dual DC PSUs	Side-to-Side airflow	N/A
AS5915-18X-O-AC-S-US	Intel Atom C3308	Fixed Dual DC PSUs	Side-to-Side airflow	US
AS5915-18X-O-AC-S-UK	Intel Atom C3308	Fixed Dual DC PSUs	Side-to-Side airflow	UK
AS5915-18X-O-AC-S-EU	Intel Atom C3308	Fixed Dual DC PSUs	Side-to-Side airflow	EU
AS5915-18X-O-AC-S-JP	Intel Atom C3308	Fixed Dual DC PSUs	Side-to-Side airflow	JP

AS5915-18X Air Filter Kit Table

Model Number	Descriptions
AS5915-18X Air Filter Kit	Assembled module with filter installed
AS5915-18X Air Filter	Air filter frame for field replacement