AS7316-26XB
Cell Site Gateway
Bare-Metal Hardware

OPEN ACCEPTED™

Product Overview

The Edgecore AS7316-26XB is a cell site gateway designed for outdoor deployment in cabinets located at a mobile cellular tower sites and supports a hardened operational temperature from -40°C to 65°C. The AS7316-26XB features 16 x 10G SFP+, 8 x 25G SFP28 and 2 x 100G QSFP28 fixed ports, with all switch ports and console/management/ToD/BITS/1PPS/10MHz ports being located on the front panel.

The 10G ports are wire-speed by default and support standard SFP+ optical transceivers or Direct Attached Cables (DAC). Also, each 10G port supports the IEEE 1588 standard for precision clock synchronization.

The QSFP28 ports support 100G operation and can be configured as 1x100 GbE or 1x40GbE, and using breakout cables, as 2x50GbE, 4x25GbE, or 4x10GbE.

The AS7316-26XB supports redundant hot-swappable AC/48VDC PSUs and redundant hot-swappable fans. Airflow direction is front-to-back airflow with air intake from the port side.

Key Features and Benefits

■ White box cell site gateway for mobile backhaul networks.

■ 16 x 10G SFP+ , 8 x 25G SFP28 and 2 x 100G QSFP28 fixed ports.

■ Full line-rate Layer 2 or Layer 3 forwarding of 300 Gbps.

■ Rack mountable in standard 19" racks.

■ Supports port-to-power airflow SKU.

■ All ports and PSUs on front; fan modules on rear

■ Hot-swappable, load sharing, redundant AC/48VDC PSUs.

■ Hot swappable 5+1 redundant fan modules.

■ Management: Ethernet and console RJ-45 ports; USB storage port.

■ Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.

■ Compatible with Open Network Linux (ONL).

Cell Site Router/Gateway

Infinera® **ip**infusion™ **ONIE** ONL CERTIFIED GOLD

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Features

Ports

Switch Ports
- 16 x SFP+ (each supporting 10 GbE or 1 GbE)
- 8 x SFP28 (each supporting 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 Type A storage port

Clocking and Timing ports
- 1 x 1PPS Input port
- 1 x 1PPS Output port
- 1 x 10MHz Input port
- 1 x 10MHz Output port
- 1 x Time of day (ToD) RJ-45 port
- 1 x Building-Integrated Timing System port (BITS)

GPS Antenna
- 1 x GPS antenna port

Key Components

Switch Silicon: Broadcom Qumran-AX BCM88470
CPU Modules:
- CPU: Intel Xeon D-1519 1.5G
- DDR SDRAM: 8GB x 2 2133MHz with ECC (SO-DIMM) DDR4

Performance

High performance packet processor :
- 300 Gb/s full-duplex integrated packet processor and traffic manager
- 300 Mpps processing rate
- Route Entry: 128K IPv4 and 32K IPv6 FIB entries (based on BCM88470 specs. Entries may vary depending on operating system)

Traffic Manager:
- 32k programmable wire-rate queues
- Deep buffering: 24 Gigabyte DRAM-based
- Congestion management

Supported Optics and Cables

SFP+ Ports:
- 10GBASE-CR DAC: up to 3 m passive; up to 10 m active
- 10GBASE-SRL/SR: up to 100/300 m over OM3 MMF
- 10GBASE-LR: Up to 10 km over SMF
- 10GBASE-ER: Up to 40 km over SMF
- 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T

QSFP+ Ports:
- 40GBASE-CR4 DAC; up to 3 m passive; up to 10 m active
- 40GBASE-CR4 DAC to 4 x SFP+ 10GBASE-CR DAC; up to 3 m passive; up to 10 m active
- 40GBASE-SR4: Up to 100 m over OM3 MMF, 150 m over OM4 MMF
- 40GBASE-LR4: Up to 10 km over SMF
- 100GBASE-SR4: 100 Gbps short-reach transceiver
- 100GBASE-LR4: 100 Gbps long-reach transceiver
- QSFP28 AOC Cable: up to 30 m 100G QSFP28 to 100G QSFP28

Physical and Environmental

Dimensions (WxDxH): 438.4 x 299.8 x 43.3 mm
Weight: 6.15 kg (NW), 8.9 kg (GW)
Fans: Hot-swappable 5+1 redundant fans
Operating Temperature: -40°C to 65°C (-40°F to 149°F)
Storage Temperature: -40°C to 85°C (-40°F to 185°F)
Operating Humidity: 5% to 95% non-condensing

Power

48 VDC Power Supply:
- 400W PSU
- 36-75VDC input
- Front-to-back airflow
- Supports load-sharing function

AC Power Supply:
- 400W PSU
- 100-240V AC input
- Front-to-back airflow
- Supports load-sharing function

Power Consumption: Approx. 230 W (Max), 170 W (Typical)

Safety

UL (CAN/CSA 22.2 No 60950-1 & UL60950-1)
CB (IEC/EN60950-1)
CCC (GB4943.1-2011)
BSMI (CNS14336-1)

Electromagnetic Compatibility

CE Mark
- EN55032 Class A
- EN55024 (Immunity) for Information Technology Equipment
- EN 61000-3-3
- EN 61000-3-2

FCC Title 47, Part 15, Subpart B Class A
VCCI Class A
CNS 13438 (BSMI)
CCC (GB9254-2008)

Environmental

NEBS Level 3 (TBC)
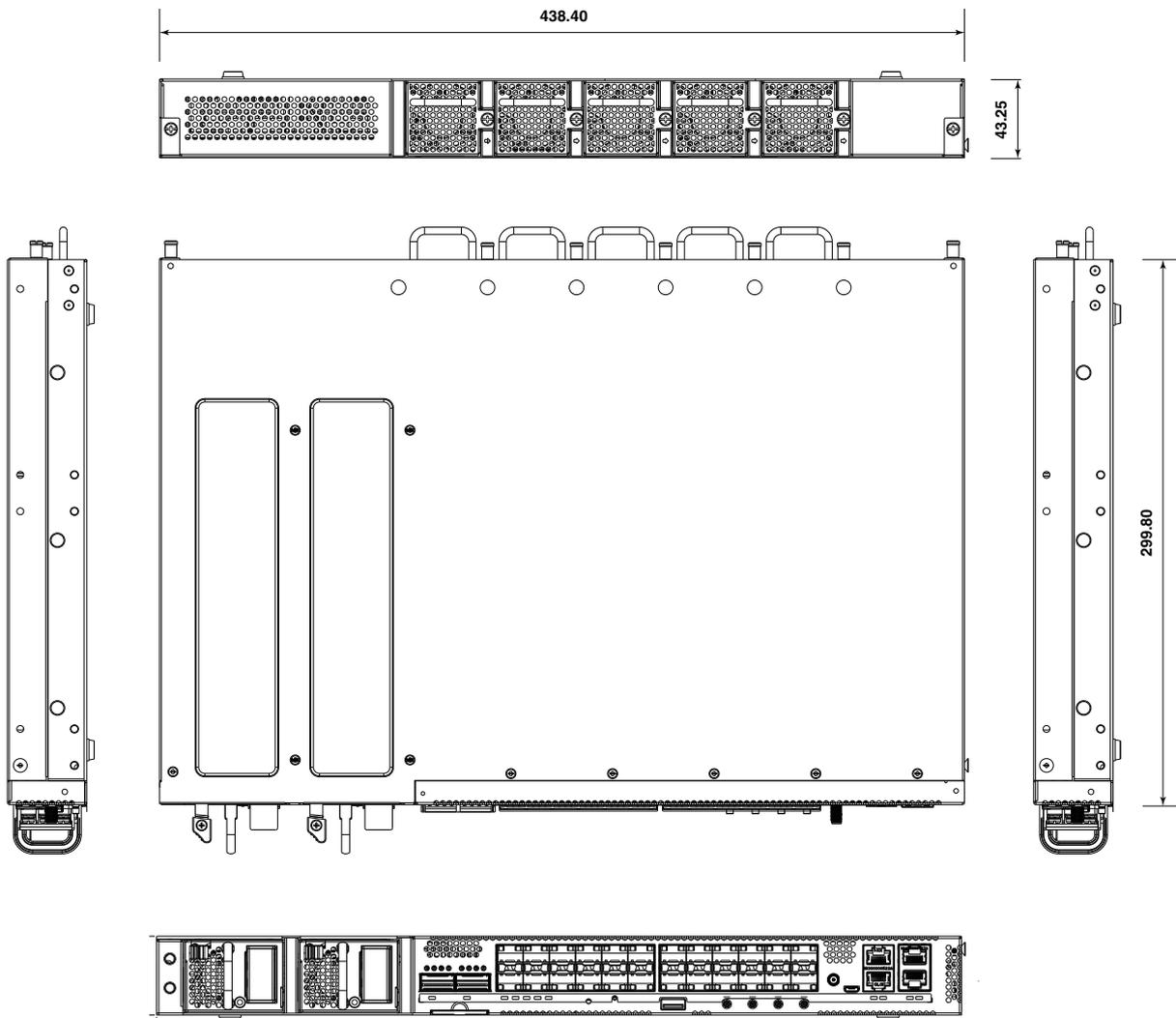Bump : IEC60068-2-29- packaged
Shock : ETSI EN 300 019-2-3 -Operational Tests, Class T3.2 op
RoHS 2.0 Compliant
WEEE Standards: The switches complied with the following WEEE standards: Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

Warranty

Please check www.edge-core.com for the warranty terms in your country.

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Features

Dimensions

438.40

43.25

299.80

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: AS7316-26XB; 16 x 10G SFP+, 8 x 25G SFP28 and 2 x 100G QSFP28 fixed ports; ONIE software installer

Model Number	CPU Module	PSU	Airflow	Region (power cord)
7316-26XB-O-AC-F-US	Intel Xeon D-1519 1.5G	dual AC PSUs	port-to-power airflow	N. America
7316-26XB-O-AC-F-EU	Intel Xeon D-1519 1.5G	dual AC PSUs	port-to-power airflow	Europe
7316-26XB-O-AC-F-UK	Intel Xeon D-1519 1.5G	dual AC PSUs	port-to-power airflow	UK
7316-26XB-O-AC-F-JP	Intel Xeon D-1519 1.5G	dual AC PSUs	port-to-power airflow	Japan
7316-26XB-O-48V-F	Intel Xeon D-1519 1.5G	dual DC PSUs	port-to-power airflow	N/A

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