

## AS7816-64X Bare-Metal Hardware

OCP Accepted



### **Product Overview**

The Edgecore AS7816-64X is a Top-of-Rack (TOR) or spine switch for high-performance data centers. The switch provides line-rate L2 and L3 switching across the 64 x QSFP28 ports, each supporting 1 x 100 GbE or 1x 40 GbE, or via breakout cables 4 x 25 GbE or 4 x 10 GbE. The AS7816-64X can be deployed as a TOR switch supporting 10/25 GbE to servers with 40/100 GbE uplinks, or as a spine switch supporting 40/100 GbE spine interconnects. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including the open source options Open Network Linux and OpenSwitch, plus commercial NOS offerings.

## **Key Features and Benefits**

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- 64 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables 4 x 25 GbE or 4 x 10 GbE.
- Supports hot/cold aisles with front-to-back and back-to-front airflow SKUs.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant 850 W PSUs.
- 3+1 redundant, hot-swappable fan modules.
- Bare-metal hardware switch pre-loaded with diagnostics software and with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.

# **AS7816-64X Product Specifications**

## Features

#### Ports

Switch Ports: 64 x QSFP28 100 GbE Management ports on port side: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management 1 x USB Type A storage

#### **Key Componets**

Switch Silicon: BCM56970 CPU Modules: Intel Xeon D-1518 quad-core 2.4 GHz 8 GB x 2 1600 MHz with ECC (SO-DIMM) DDR3L 8 MB x 2 SPI Flash (Boot) m.2 SSD: 128 GB Reserve mSATA connector

#### Performance

Switching Capability: 12.8 Tbps full duplex Jumbo frames support up to 9 Kbytes Packet Buffer Size: 42 MB integrated packet buffer Subject to NOS: MAC Addresses: 8 K min./264 K max. VLAN IDs: 4 K IPv4: 76 K min./128 K max. host entries; IPv4/32: 32 K LPM entries with TCAM-only mode IPv6: 46K /64 K max. host entries; IPv6/64: 16 K TCAM-only mode

#### **Physical and Environmental**

Dimensions (WxDxH):  $43.8 \times 58.0 \times 8.8 \text{ cm} (17.2 \times 22.8 \times 3.5 \text{ in})$ Weight: 14.11 kg (31.1 lb)Fans: Hot-swappable 3 + 1 redundant fans Operating Temperature:  $0^{\circ}\text{C} \sim 45^{\circ}\text{C} (32^{\circ}\text{F} \sim 113^{\circ}\text{F})$ Operating Humidity:  $5\% \sim 95\%$  non-condensing

#### **QSFP28** Port LEDs

LED1: Blue (100 G), Orange (40 G), White (25 G), Green (10 G) LED2~LED4: White (25 G), Green (10 G) Management Port LED: Green: (10 M/100 M/1 G), Flashing: Activity System LEDs: PSU1, PSU2, Fan, Diag, and Loc Reset button

#### Power

PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC Input Voltage: 90 to 240 VAC at 50-60 Hz or -36 to -72 VDC

#### Regulatory

EMI CE Mark EN 55032:2015 + AC:2016, Class A EN 55024:2010 + A1:2015 EN 61000 3-2:2014, Class A EN 61000 3-3:2013 CISPR 32:2015 + COR1:2016, Class A FCC Part 15 Subpart B Class A VCCI Class A CCC Safety СВ UL/CU/NRTL CCC Environmental: Vibration: GR-63-CORE Shock: GR-63-CORE **RoHS-6** Compliant Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

#### 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 (877) 828-CORE (877-828-2673) or authorized resellers.

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