AS7816-64X
Bare-Metal Hardware

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 1 x 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-swappabble 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 commercial NOS offerings.
### 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 Components
- 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 x 58.0 x 8.8 cm (17.2 x 22.8 x 3.5 in)
- Weight: 14.11 kg (31.1 lb)
- Fans: Hot-swappable 3 + 1 redundant fans
- Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
- Operating Humidity: 5% ~ 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-swappablle 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 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
  - CB
  - UL/CU/NRTL
- **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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