

# DATA CENTER SWITCH

## EXP100-32X



The Edgecore EXP100-32X is a high-performance, low-power, low-latency, fully-programmable SDN data center switch designed for data center, cloud, and AI networks.

The EXP100-32X is a 32 x 100G QSFP28 port switch in a 1RU form factor. Each of the 100G QSFP28 ports can breakout to 2 x 50G, 4 x 25G, or 4 x 10G, optimizing compute racks by enabling 25 Gbps-per-lane server links. The device is an ideal leaf or ToR switch for cloud data center operators that are driving the rapid adoption of compute server NICs to 100 Gbps speeds.

The EXP100-32X also supports Xsight Instruction Set Architecture (ISA) for users to define flexible packet processing rules, routing protocols, and network policies. The programmability is also an important underlying capability for many of the advanced features, including queue management, congestion control, and telemetry. The programmability will handle newly-defined notification mechanisms, such as the Ultra Ethernet Transport (UET) protocol, packet trimming, and PFC. In addition, programmability allows flexible, precise, and real-time telemetry, supporting INT, IOAM, IFA, ERSPAN, sFlow, NetFlow, and Netstream, all using hardware acceleration.

Optimized for interconnecting AI/ML, storage, and compute clusters in data centers, the EXP100-32X supports congestion-aware routing, which comprises measuring and signaling congestion as well as load balancing across the network fabric. For a given fabric link, the EXP100-32X can measure flow rate, latency, and queue level. When congestion is detected, it can signal using Explicit Congestion Notification (ECN), Congestion Signaling (CSIG), or other customer-defined mechanisms. The EXP100-32X can handle flowlet-based load balancing and packet spraying across fabric links, as well as traditional flow-based approaches like ECMP.

## Key Features and Benefits

- Supports 3.2 Tbps full-duplex throughput
- Supports 125G NRZ SerDes with a retimer-less design
- The 32 x 100G QSFP28 ports can breakout to 2 x 50G, 4 x 25G, or 4 x 10G
- Fully programmable software-defined pipeline and elastic control tables enable application-specific optimization and in-field updates
- Supports UEC-compatible features such as congestion-aware dynamic load balancing, CSIG, packet trimming, PFC, and UET header parsing
- Supports fast link-failure recovery, rich telemetry, advanced data-plane failure prediction, and lossless operation with PFC required for deployment in AI/ML clusters
- Supports front-to-back airflow direction
- All ports on front; PSUs and fans accessible from rear
- Hot-swappable, load-sharing, redundant AC power.
- 5+1 redundant, hot-swappable fan modules
- Switch pre-loaded Open Networking Install Environment(ONIE) for the automated loading of community SONiC, Xsight OS, or commercial NOS



Freedom  
of choice



Greater  
control



Rapid  
innovation

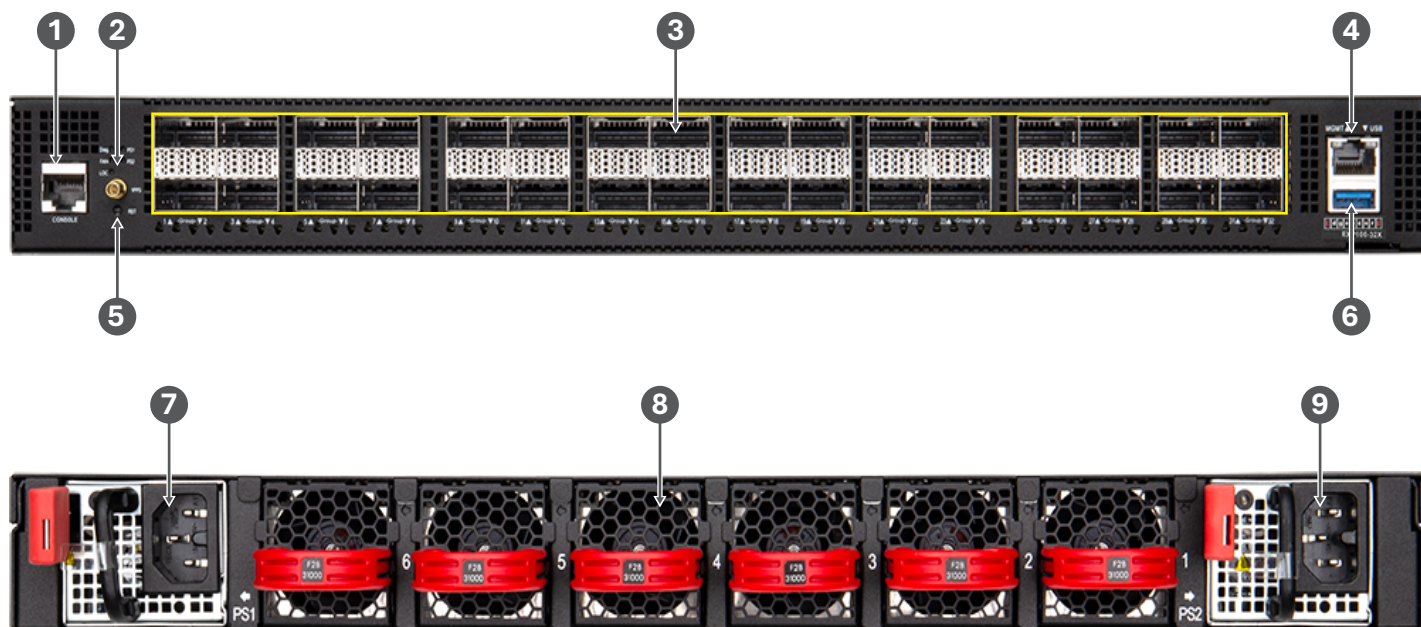


Reduced  
CAPEX and OPEX

## Free Software Included



## Interfaces



### Description

- |                           |                                       |
|---------------------------|---------------------------------------|
| 1. Console port           | 6. USB 3.0 storage port               |
| 2. 1PPS SMA connector     | 7. PSU 1                              |
| 3. 32 x 100G QSFP28 ports | 8. Hot-swappable 5 + 1 redundant fans |
| 4. Management port        | 9. PSU 2                              |
| 5. Reset button           |                                       |

## Ports

- Switch Ports:
    - 32 x 100G QSFP28 switch ports, each supports 2 x 50G, 4 x 25G and 4 x 10G via breakout cables
  - Management Ports on Port Side:
    - 1 x RJ-45 serial console
    - 1 x RJ-45 1G BASE-T management
    - 1 x USB Type A storage
  - Supported Transceivers and Cables:
    - 100G DAC
    - 100G AOC
    - 100G SR4
    - 100G LR4
    - 100G DR1
    - 100G FR1
    - 100G LR1
- Note: More optics and detailed cabling information can be found at [www.edge-core.com](http://www.edge-core.com).

## Key Components

- Switch Silicon: Xsight Labs X2
- CPU Modules:
  - Intel® Xeon® D-1713NTE 4-Core 2.2 GHz
  - 32 GB DDR4 SO-DIMM with ECC
  - 1 TB m.2 2280 NVMe SSD

## Performance

- Switching Capacity: 3.2 Tbps (full duplex)
- Jumbo frames support up to 9216 Bytes
- Packet Buffer Size: 64 MB integrated packet buffer

## Physical and Environmental

- Dimensions (WxDxH): 442 x 509 x 44 mm (17.40 x 20.04 x 1.73 inch)
- Weight: 10.005 kg (20.05 lb)
- Fans: 5+1 hot-swappable redundant fans
- Operating Temperature: 0°C – 40°C (32°F – 104°F)
- Storage Temperature: -40°C – 70°C (-40°F – 158°F)
- Operating Humidity: 0% – 95% non-condensing
- Operating Altitude: 0 – 10,000 feet

## Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings

## LEDs

- QSFP28 Port LEDs: Link Status, Activity, Rate
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: Diagnostic, Locator, PSU, and Fan Status

## Power

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

## Regulatory Compliance

- EMI
  - FCC
    - FCC 47 CFR Part 15 Subpart B Class A
  - CE
    - EN 55022 Class A
    - EN 55035
    - EN 300 286
    - EN 61000-3-2
    - EN 61000-3-3
  - UKCA
    - BS EN 62368-1: 2014 + A11: 2017
  - VCCI
    - VCCI-32
- Safety
  - UL/ CUL
    - UL, CSA
  - CB
    - IEC: EN-60950-1 & IEC 62368
- RoHS
  - Restriction of Hazardous Substances (RoHS) 6/6
  - China Restriction of Hazardous Substances (RoHS)
- Environmental:
  - Low-Temperature Exposure and Thermal Shock (packaged): NEBS GR63-CORE ISSUE 5, Section 4.1.1.1
  - High Relative Humidity Exposure (Packaged): NEBS GR63-CORE ISSUE 5, Section 4.1.1.2
  - High-Temperature Exposure and Thermal Shock (Packaged): NEBS GR63-CORE ISSUE 4, Section 4.1.1.3
  - Operating Temperature and Relative Humidity: NEBS GR63-CORE ISSUE 5, Section 4.1.2
  - Altitude : NEBS GR63-CORE ISSUE 4, Section 4.1.3
  - Handling Drop Tests -Packaged Equipment: NEBS GR63-CORE ISSUE 5,Section 4.3.1.1
  - Unpackaged Equipment -Drop Tests (All Equipment): NEBS GR63-CORE ISSUE 5, Section 4.3.2
  - Earthquake (10U Rack): NEBS GR63-CORE ISSUE 4, Section 4.4.1 (Zone4)
  - Office Vibration Test Procedure;90 minutes/axis (Stand & 42U Rack): NEBS GR63-CORE ISSUE 5,section 4.4.4
  - Transportation Vibration-Packaged Equipment: NEBS GR63-CORE ISSUE 5, section 4.4.5
  - Acoustic noise: NEBS GR63-CORE ISSUE 5, section 4.6
  - Bump: IEC60068-2-29- packaged
  - Shock: ETSI EN 300 019-2-3 -Operational Tests, Class T3.2 op

**Warranty**

Please check [www.edge-core.com](http://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](http://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](http://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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