Next-Gen AI Network Switching – Faster, Smarter, Secure

Enhanced Switch (EX)

3832 EX

PRODUCT OVERVIEW

Interface Masters Technologies Enhanced Switch 3832 EX is an advanced 32x400G power efficient open networking switch and is a:

- **Open ISA Programmable Ethernet Switch**.

3832 EX

The 3832 EX delivers transformative advantages for AI, cloud, and hyperscale data center environments:

- **Ultra-Low Power Efficiency:** Achieves up to 40% lower power consumption compared to conventional 12.8T switches, significantly reducing operational costs.
- **Advanced Programmability:** Built on a fully programmable SDN architecture, enabling tailored packet processing and dynamic network policy control.
- **Minimized Tail Latency:** Powered by X-IQ™ intelligent queuing, which reduces delays and accelerates flow completion times—critical for AI workloads.
- **Real-Time Telemetry:** X-View™ congestion avoidance technology offers deep, real-time visibility into network performance and health.
- **AI Fabric Optimization:** Engineered to meet the demands of high-throughput, low-latency AI infrastructure.
- **Elite Timing Support:** Compliant with precision timing standards for synchronized, deterministic networking.

SOFTWARE

- SONiC (Software for Open Networking in the Cloud)
- OpenBMC and Redfish Integration

Xsight Labs X2 Switch Fabric

- **Industry-Leading Performance:** The Xsight Labs X2 delivers 12.8 Tb of switching capacity with a fully software-defined pipeline and logic architecture.
- **Advanced Switching Core:**
  - ➢ Programmable data plane
  - ➢ Queue Management (QM)
  - ➢ PF-TCAM: (PKT Filtering Ternary Content Memory)
- **Versatile Table Support:**
  - ➢ Lookup tables: hash, longest prefix match (LPM), direct access
  - ➢ TCAM
  - ➢ Counters
- **High-Level Language Control:** Enables flexible and efficient configuration of network behavior.
  - ➢ Shared Ingress/Egress Pipelines: Streamlined architecture for optimized traffic flow.
  - ➢ Intel-Based Control Plane: Powered by an Intel 8-core 2.2GHz processor for robust management and orchestration.

Other

- Optional PTP boundary clock supporting G.8275.1, G.8275.2, SMPTE ST2059-2, AES67, IEEE1588 (V2.0 and V2.1), with dedicated timing inputs.
- Titanium efficiency redundant hot-swappable power supplies, port-to-power & power-to-port, AC/DC
- Redundant hot-swappable fans
- US designed and US manufactured.

ENVIRONMENTAL

Operating Temperature	-5º to + 40ºC (23ºF to 104ºF)
Operating Humidity	5 to 95%, non-condensing

DIMENSIONS

	Inches	Millimeter
Length	24.0	609.6
Height	1.75	44.45
Width	17.15	435.61

STANDARD ACCESSORIES

RAIL288	Rail Kit
MCC05	Management and console cabling

PRELIMINARY POWER CONSUMPTION

Typical	Maximum
325W	500W

ORDERING INFORMATION

Part Number	Description
3832-EX-XX-Y	3832 EX 32x400G network ports, Intel 8C 2.2GHz control plane CPU, 2TB SSD, 48GB RAM and redundant hot-swappable fans and power supplies.
3832-EX-T-XX-Y	3832 EX 32x400G network ports, Intel 8C 2.2GHz control plane CPU, 2TB SSD, 48GB RAM and redundant hot-swappable fans and power supplies. Includes factory installed timing module.
XX	Instead of XX change to AC for AC PSU or DC for DC PSU options
Y	Instead of Y change to F for port-to-power airflow or B for power-to-port airflow options.
Transceivers	Please check with us for suitable 112G multi-mode and single-mode transceiver options
Support	Support options available for both hardware and software

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CUSTOMIZATION SERVICES
Hardware, Firmware, Linux O/S and application code development services are available.

ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of high-speed networking solutions focused on 1/10/25/40/100/200/400 Gigabit Ethernet networking solutions. For 30 years Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality.

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