



DATASHEET

XAI800-64O/XAI800-64D

The Exaware XAI800-64O and XAI800-64D are high-performance, low latency switches for high-performance data centers.

Application Scenarios:

- **Spine Switch:**
A next-generation, highest-capacity switch for data center spine use case. Breakout options include 2 x 400G, 4 x 200G, and 8 x 100G per port, with a maximum of 320 logical ports. Offers reduced cost and power per bit. Scalable and enables migration to 400G leaf connectivity in data centers.
- **AI/ML Clusters:**
Standards-based (Ethernet) networking for AI/ML training, leveraging low latency and high-throughput RoCEv2. Reduces Job Completion Time (JCT) using the cognitive routing and congestion management capabilities of the Switch. Fully programmable telemetry enables sophisticated on-chip applications for heightened network insight and efficient network management.
- **High-Performance Computing:**
The large number of high-capacity Ethernet ports enables server interfaces to transition to higher speeds and denser networks. Enables the virtualization of compute and storage with VxLAN switching and routing.
- **Cloud DCI:**
Support 400G QSFP-DD ZR/OpenZR+/+6dBm ZR+ and future proof 800G OSFP ZR/ZR+/+6dBm for Cloud DCI scenarios.



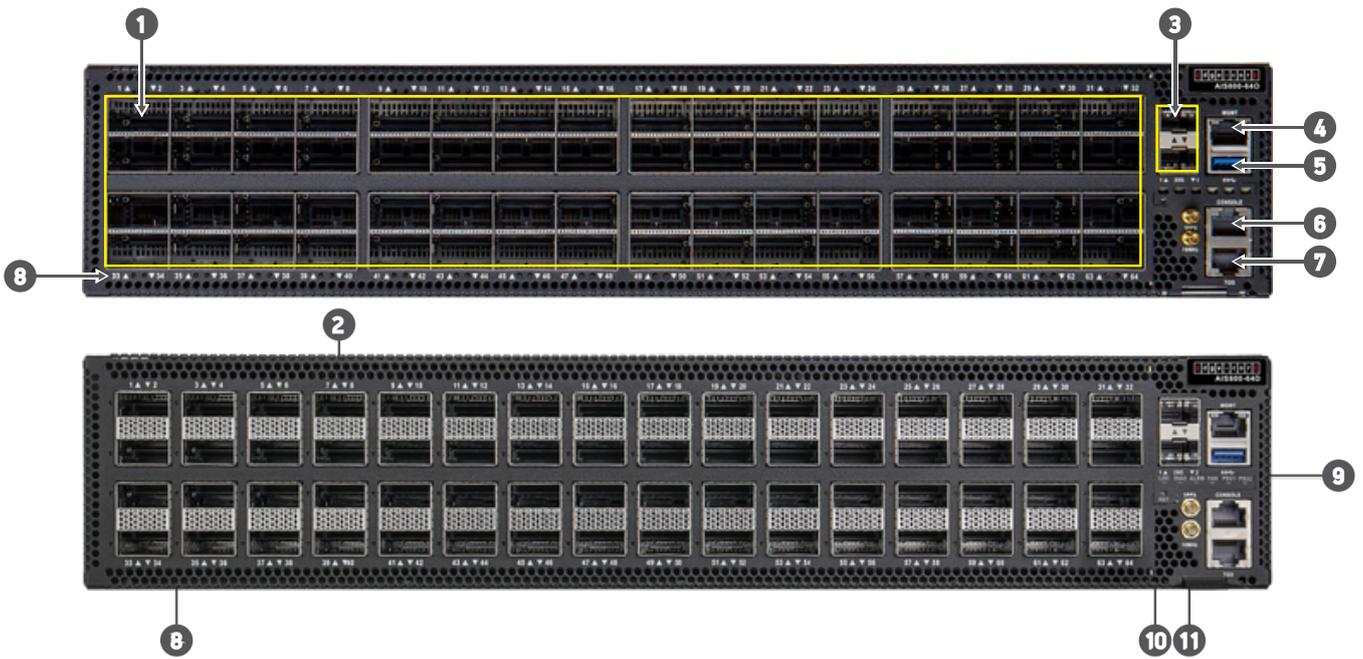
KEY FEATURES AND BENEFITS

- OSFP800 or QSFP-DD800 switch ports, each supporting 1 x 800 GbE (100G PAM4), or via breakout cables 2 x 400G GbE, 4 x 200 GbE, or 8 x 100 GbE.
- OSFP800 or QSFP-DD800 switch ports also support 1 x 400 GbE (50G PAM4), 1 x 100 GbE (NRZ), and via breakout cables 2 x 200 GbE, 4 x 100 GbE, or 8 x 50 GbE.
- Up to 30 W power budget per port.
- Incorporates Broadcom Tomahawk 5 switch series silicon.
 - Highest Radix: Up to 320 logical ports on a single chip, low latency.
 - Cognitive/Adaptive routing and Dynamic Load Balancing (DLB) and Global Load Balancing (GLB).
 - Advanced shared buffering.
 - Programmable in-band telemetry.
 - Supports end-to-end congestion control.
 - Power efficient due to a monolithic 5nm die.
 - Hardware-based link failover for network resiliency and reduced job completion time.
 - Support for SRv6.
 - Support for VxLAN RIOT.
- BMC module with serial-over-LAN support.
- SyncE and PTPv2 support with 1PPS, 10MHz, and ToD connectors on the front panel.
- Contains e-fuses to protect transceivers and internal components .
- 2 RU form factor.
- Supports hot/cold aisles with front-to-back/AFO/port intake airflow SKU and back-to-front/AFI/port exhaust airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant 3000 W AC/DC PSUs.
- 4 Hot-swappable fan modules with 7+1 redundant fans.
- The switch is pre-loaded with Open Network Install Environment (ONIE) and SONiC distributions, with support by Exaware.

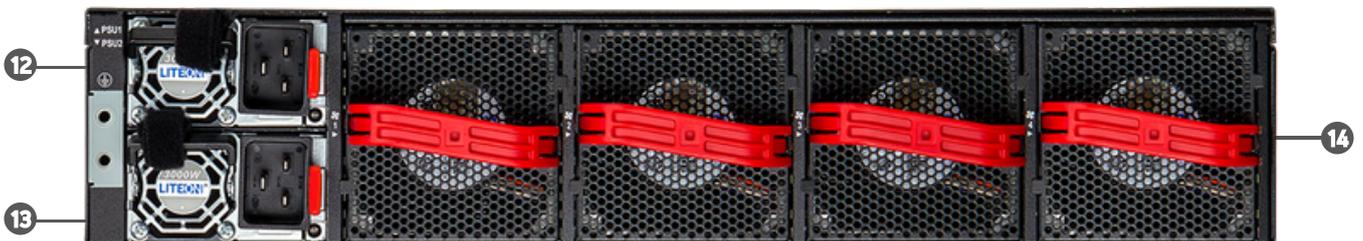
SW options



Front View



Airflow: front-to-back



Airflow: back-to-front



Description

1. 64 x 800G OSFP800 ports	8. Port indicators
2. 64 x 800G QSFP-DD800 ports	9. System LEDs
3. 2 x 25G SFP28 ports	10. 1PPS connector
4. RJ-45 management port	11. 10 MHz connector
5. USB 3.0 storage port	12. PSU1
6. RJ-45 console port	13. PSU2
7. ToD port	14. 4 Hot-swappable fan modules with 7+1 redundant fans

PORTS

- Switch Ports: 64 x OSFP800 or QSFP-DD800 800GbE
- Logical Ports: Max. 320
- Port Modes:
 - 1 x 800G (8 lanes 100G PAM4)
 - 2 x 400G (4 lanes 100G PAM4) breakout
 - 4 x 200G (2 lanes 100G PAM4) breakout
 - 8 x 100G (1 lane 100G PAM4) breakout
 - 1 x 400G (8 lanes 50G PAM4)
 - 2 x 200G (4 lanes 50G PAM4) breakout
 - 4 x 100G (2 lanes 50G PAM4) breakout
 - 8 x 50G (1 lane 50G PAM4) breakout
 - 1 x 100G (4 lanes 25G NRZ)
- Management Ports on Port Side:
 - 1 x RJ-45 serial console
 - 1 x RJ-45 1000BASE-T management
 - 2 x SFP28 25G In-band management
 - 1 x USB 3.0 storage port
- Supported Transceivers and Cables:
 - Contact Exaware for details

KEY COMPONENTS

- Switch Silicon: BCM78900 Tomahawk 5
- CPU Module:
 - Processor: Intel® Xeon® Processor D-1713NTE 4-Core 2.2 GHz
 - SPI Flash: 64MB x 2
 - Memory: 32GB DDR4 SO-DIMM with ECC
 - Storage: 240G m.2 2280 NVMe SSD
 - TPM: TPM2.0 SPI
- BMC: AST2600 with OpenBMC secured by AST1060 Root of Trust
- Timing and Sync:
 - 1PPS Port, 10 MHz port, ToD port, SyncE, IEEE 1588v2 PTP

PERFORMANCE

- Switching Capability: 51.2 Tbps full duplex
- Jumbo Frames: up to 9416 Bytes
- Subject to NOS:
 - VxLAN RIOT support
 - SRv6 support
 - GLB support

PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 44 x 64.92 x 8.7 cm (17.32 x 25.56 x 3.43 in.)
- Weight: 21.5 kg (47.4 lb), with 2 PSUs and 4 fan modules installed
- Fans: 4 Hot-swappable fan modules with 7+1 redundant fans
- Storage Temperature: -40°C – 70°C (-40°F – 158°F)
- Operating Temperature (front-to-back): 0°C – 40°C (32°F – 104°F)
- Operating Temperature (back-to-front): 0°C – 35°C (32°F – 95°F)
- *subject to used optics
- Operating Humidity: 5% – 95% non-condensing
- Operating Altitude: 1800 m

SOFTWARE

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with SONiC support by Exaware.

SYSTEM AND PORT LEDs

- Port LEDs: Link Status, Activity, Rate
- Management Port LEDs: Link Status, Activity
- RJ-45 Port: Link Status, Activity
- System LEDs: Locator, Diagnostic, PSU, Fan Status, Alarm
- Reset Button

POWER

- PSUs: 2 redundant, load-sharing, hot-swappable 3000W AC/DC
- AC PCU:
 - AC input rating: 200-240 VAC at 50-60Hz (16A/3000W max.)
 - AC PSU Inlet: IEC 60320 C20
 - Power efficiency: 90% ~ 94% (without fan)
- DC PSU:
 - DC Input rating: -48V ~ -60V (80A A/3000W max.)
 - Power efficiency: 93% ~ 96% (without fan)
- Power Draw:
 - Less than 2775W (100% traffic at 40°C ambient temperature with 100% fan speed and 64 x 18 W optics)
- Power Budget:
 - For all 64 ports all with per-port maximum 30 W capability on both OSFP version and QSFP-DD800 version and actual deployment population subject to total power distribution boundary and thermal considerations.

REGULATORY

- Emissions:
 - EN 55032 Class A
 - AS/NZS CISPR32
 - EN 61000-3-2
 - EN 61000-3-3
 - FCC Class A
 - ICES-003
 - VCCI-CISPR32
- Immunity:
 - EN 55035
 - IEC 61000-4-2/3/4/5/6/8/11
- Safety:
 - UL (CSA 22.2 No 62368-1 & UL 62368-1) CB (IEC/EN 62368-1)
- Environmental:
 - GR63-CORE (Pre-test)
- RoHS-2.0 Compliant
- Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)
- Country of Origin: Taiwan (TAA Compliant)

Base Model: XAI800-64O; Intel® Xeon® Processor D-1713NTE 4-Core; 64-Port 800G OSFP800.

Model Number	PSU	Airflow	Region (Power Cord)
XAI800-64O-A-AC-F-UN	Dual AC PSUs	Front-to-back	IEC 60320 C19-C20 power cord
XAI800-64O-A-AC-F	Dual AC PSUs	Front-to-back	No power cord
XAI800-64O-A-AC-B-UN	Dual AC PSUs	Back-to-front	IEC 60320 C19-C20 power cord
XAI800-64O-A-AC-B	Dual AC PSUs	Back-to-front	No power cord
XAI800-64O-A-DF	Dual DC PSUs	Front-to-back	No power cord
XAI800-64O-A-DB	Dual DC PSUs	Back-to-front	No power cord

Base Model: XAI800-64D; Intel® Xeon® Processor D-1713NTE 4-Core; 64-Port 800G QSFP-DD800.

Model Number	PSU	Air flow	Region (Power Cord)
XAI800-64D-A-AC-F-UN	Dual AC PSUs	Front-to-back	IEC 60320 C19-C20 power cord
XAI800-64D-A-AC-F	Dual AC PSUs	Front-to-back	No power cord
XAI800-64D-A-AC-B-UN	Dual AC PSUs	Back-to-front	IEC 60320 C19-C20 power cord
XAI800-64D-A-AC-B	Dual AC PSUs	Back-to-front	No power cord
XAI800-64D-A-DF	Dual DC PSUs	Front-to-back	No power cord
XAI800-64D-A-DB	Dual DC PSUs	Back-to-front	No power cord

PSU FRUs (Power Cord Not Included)

Model Number	PSU	Airflow	Region (Power Cord)
XAI800-64-A-PSU-AC-F	AC	Front-to-Back	Worldwide
XAI800-64-A-PSU-AC-B	AC	Back-to-Front	Worldwide
XAI800-64-A-PSU-DC-F	DC	Front-to-Back	Worldwide
XAI800-64-A-PSU-DC-B	DC	Back-to-Front	Worldwide

Fan FRUs

Model Number	Air flow
XAI800-64-A-FAN-F	Front-to-Back
XAI800-64-A-FAN-B	Back-to-Front

Sliding Rail

Model Number	Description
RKIT-AI-2-8-SLIDE	Normal installed sliding rail
RKIT-AI-2R-8-SLIDE	Reversed installed sliding rail

SONiC Support Options

	Part Number	Description
C SONiC 1 Year	XAI800-CNOS-1Y	Community SONiC support 1 year
C SONiC 3 Years	XAI800-CNOS-3Y	Community SONiC support 3 years
C SONiC 5 Years	XAI800-CNOS-5Y	Community SONiC support 5 years

For More Information

To find out more about Exaware Routing products and solutions, visit www.exaware.com

About Exaware Routing LTD. Exaware Routing LTD is providing end-to-end networking solutions for the data center, enterprise and telco/ISP networks - including HW, SW, management systems, support and professional services. Exaware Routing LTD delivers the software and systems that transform the way the world connects and serves customers and partners worldwide. Additional information can be found at www.exaware.com. To purchase Exaware Routing solutions, please contact your Exaware Routing LTD representatives through <https://www.exaware.com/contact-us>.

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