



The Exaware XDC401-32D is a high-performance, low latency switch for high-performance data centers. The switch provides L2 and L3 switching across the 32 x QSFP56-DD ports, each supporting 1 x 400 GbE or 1 x 100 GbE, or via breakout cables 2 x 200 GbE, 4 x 100 GbE, or 4 x 25 GbE. The XDC401-32D can be deployed as a leaf or spine switch supporting 100/400 GbE interconnects, as well as 400 GbE ZR or OpenZR+ transceivers for data center interconnect applications. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including SONiC distributions. This open network switch is available with Exaware SONiC support.

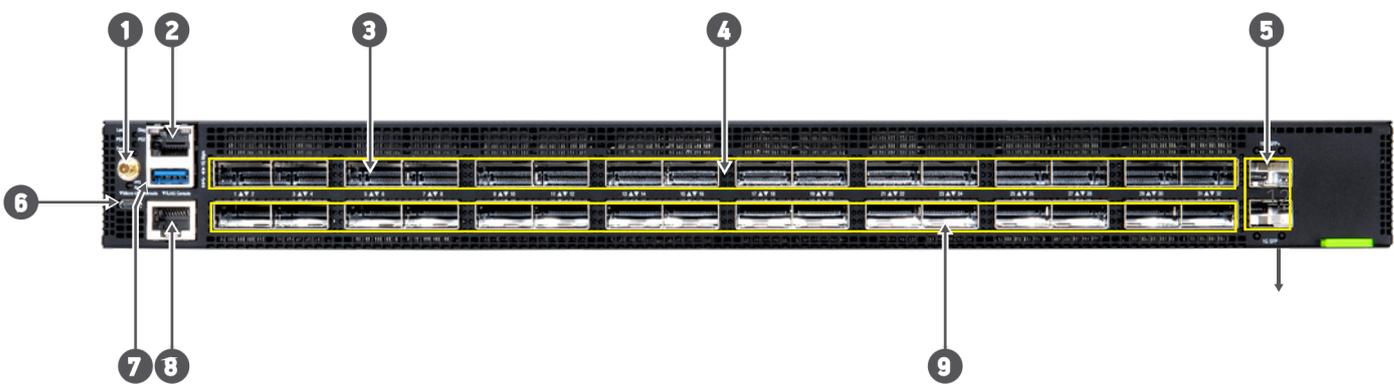
## KEY FEATURES AND BENEFITS

- QSFP56-DD switch ports, each supporting 1 x 400 GbE, or via breakout cables 2 x 200 GbE or 4 x 100 GbE.
- Upper 16 ports support up to 24 W per transceiver. Lower 16 ports support up to 14 W per transceiver.
- QSFP56-DD switch ports also support 100 GbE QSFP28 and 40 GbE QSFP+, and via breakout cables 4 x 25 GbE or 4 x 10 GbE.
- Supports 400G ZR/Open ZR+ coherent transceivers in the upper 16 QSFP56-DD ports.
- Incorporates Broadcom Tomahawk 4 switch series silicon.
- BMC module with Serial-over-LAN support
- SyncE and PTP support with 1PPS connector on the front panel
- Contains e-fuses to protect individual transceivers
- Standby power mode
- Ability to selectively power off individual ports
- 1 RU form factor.
- 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 1500 W AC or 48VDC PSUs.
- 5+1 redundant, hot-swappable fan modules.
- The switch available with SONiC distribution with support by Exaware.

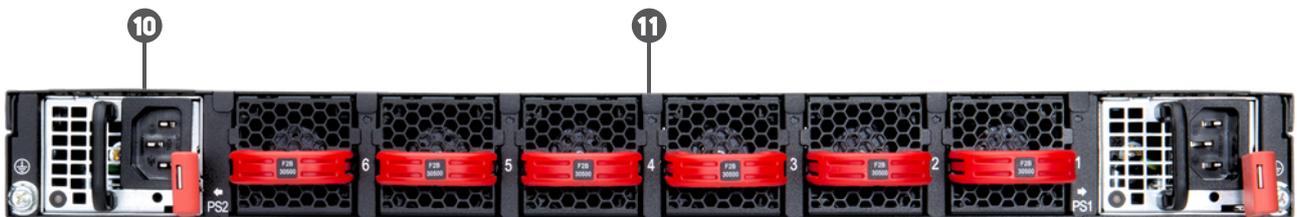
SW OPTIONS



FRONT VIEW



BACK VIEW



Description

1. 1PPS SMB connector Input/output	8. USB storage port
2. RJ-45 management port	9. RJ-45 console port
3. 16 x 400G QSFP56-DD ports supporting up to 24W per port, supports 400G ZR/OpenZR+ transceivers.	10. 16 x 400G QSFP56-DD ports supporting up to 14W per port
4. Port indicators	11. PSU 2
5. Top: 10G SFP+ port (MAC) Bottom: 1G SFP port (CPU)	12. Hot-swappable 5 + 1 redundant fans
6. Micro USB console port (higher priority)	13. PSU 1

## PORTS

- Switch Ports: 32 x QSFP56-DD 400 GbE
- Logical Ports: Max. 128
- Port Modes:
  - 1 x 400G (8 lanes 50G PAM4) 2 x 200G (4 lanes 50G PAM4) QSFP56-DD breakout 4 x 100G (2 lanes 50G PAM4) QSFP56-DD breakout 1 x 100G (4 lanes 25G NRZ) QSFP28 1 x 40G (4 lanes 10G NRZ) QSFP+ 4 x 25G (1 lane 25G NRZ) QSFP28 breakout 4 x 10G (1 lane 10G NRZ) QSFP+ breakout
  - Management Ports on Port Side: 1 x RJ-45 serial console 1 x Micro USB console port · Note: When both console ports are connected, only one is active. The Micro USB port has a higher priority. 1 x RJ-45 1000BASE-T management 1 x SFP+ 10G ASIC management 1 x SFP 1G CPU management 1 x USB 3.0 storage port
  - Supported Transceivers and Cables: 40GBASE-SR4/LR4 40G-DAC Cable 100GBASE-SR4/CWDM4/LR4 100G-DAC/AOC Cable 400GBASE-FR4/ZR 400G-DAC/AOC Cable · Note: More optics and detailed cabling information can be found at [www.exaware.com](http://www.exaware.com).

## KEY COMPONENTS

- Switch Silicon: BCM56993 Tomahawk 4
- CPU Module:
  - Processor: Intel® Xeon® Processor D-1713NTE 4-Core 2.2 GHz
  - SPI Flash: 512MB x 2
  - Memory: 32GB DDR4 SO-DIMM with ECC Storage: 128GB m.2 SATA SSD with PLP support TPM: TPM2.0
    - BMC: AST2600 with OpenBMC
    - Timing and Sync: 1PPS Port, SyncE, IEEE 1588v2 PTP

## PERFORMANCE

- Switching Capability: 12.8 Tbps full duplex
- Forwarding Rate: 5.079 Bpps
- Latency: 649 ns
- Jumbo Frames: up to 9416 Bytes
- Packet Buffer Size: 56.83MB
- Subject to NOS: Shared TCAM space with the following maximum entries: MAC Addresses: 8K (exact)/128K (fuzzy) VRF: 8192 L3 LPM: 4K IPv4/2K IPv6 64b/1K IPv6 (128b) ALPM: 850K IPv4/360K IPv6 64b/240K IPv6 128b VXLAN RIOT support

## PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 43.84 x 59 x 4.35 cm (17.26 x 23.23 x 1.71 in.)
- Weight: 11.85 kg (26.12 lb), with 2 PSUs and 6 fans installed
- Fans: Hot-swappable 5 + 1 redundant fans
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Temperature: (FtoB): 0°C ~ 45°C (32°F ~ 113°F) (BtoF): 0° C ~ 30° C (32°F to 86°F)
- Operating Humidity: 5% ~ 95% non-condensing

## 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
- Ethernet Management Port LEDs: Link Status, Activity
- RJ-45 Port: Link Status, Activity
  - System LEDs: Locator, Diagnostic, PSU and Fan Status
  - Reset Button

## POWER

- PSUs: 2 redundant, load-sharing, hot-swappable AC or 48VDC
- AC PSU:
  - AC input ranges: 100-127VAC at 50-60Hz (12 A/1000 W max.)\* 200-240VAC at 50-60Hz (8 A/1500 W max.) \*200-240VAC may be required for power redundancy under full loading. AC Inlet: IEC 60320 C14 Power efficiency: >90%
  - DC PSU:
    - 48VDC input ranges: -40 - -75VDC (1600 W/40 A max.) DC Inlet: Terminal screws Power efficiency: >88%
    - Power Draw: 1370 W (Maximum)
    - Power Budget: 24 W on upper 16 ports, 14 W on lower 16 ports

## REGULATORY

- Emissions:
  - EN 55032 Class A EN 61000-3-2 EN 61000-3-3 FCC Class A VCCI ICES CSPR32 (AU/NZS)
    - Immunity:
      - EN 55035 EN 55024 IEC 61000-4-2/3/4/5/6/8/11
      - UL (CSA 22.2 No 62368-1 & UL62368-1) CB (IEC/EN60950-1 & 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: XDC401-32DB; Intel® Xeon® Processor D-1713NTE 4-Core 2.2 GHz; 32 x QSFP56-DD 400GbE; ONIE Software Installer.

Model Number	PSU	Airflow	Region (Power Cord)
XDC401-32D-A-AC-F	PSU Dual AC	Front-to-Back	Without Power Cord
XDC401-32D-A-AC-B	PSUs	Back-to-Front	Without Power Cord

200-240VAC, 1500 W max. (power redundancy under full loading)

Model Number	PSU	Air flow	Region (Power Cord)
XDC401-32D-A-AC-F-UN	PSU Dual AC	Front-to-Back	IEC 60320 C13-C14
XDC401-32D-A-AC-B-UN	PSUs Dual AC	Back-to-Front	IEC 60320 C13-C14
XDC401-32D-A-AC-F-EU	PSUs Dual AC	Front-to-Back	IEC 60083 Type E/F (CEE 7/7) EU
XDC401-32D-A-AC-B-EU	PSUs Dual AC	Back-to-Front	IEC 60083 Type E/F (CEE 7/7) EU
XDC401-32D-A-AC-F-UK	PSUs Dual AC	Front-to-Back	IEC 60083 Type G (BS 1363) UK
XDC401-32D-A-AC-B-UK	PSUs	Back-to-Front	IEC 60083 Type G (BS 1363) UK

100-120VAC, 1000 W max. (may not have power redundancy under full loading, depending on type and number of transceivers present)

Model Number	PSU	Air flow	Region (Power Cord)
XDC401-32D-A-AC-F-US	PSU Dual AC	Front-to-Back	NEMA 5-15
XDC401-32D-A-AC-B-US	PSUs Dual AC	Back-to-Front	NEMA 5-15
XDC401-32D-A-AC-F-JP	PSUs Dual AC	Front-to-Back	JIS C 8303, Class I
XDC401-32D-A-AC-B-JP	PSUs	Back-to-Front	JIS C 8303, Class I

48VDC, 1600 W max. (includes 6/8AWG (4.3/6.4mm<sup>2</sup>) power cord 3 x ring terminal to 3 x ring terminal, 3m)

Model Number	PSU	Airflow
XDC401-32D-A-48V-F	Dual 48VDC PSUs	Front-to-Back
XDC401-32D-A-48V-B	Dual 48VDC PSUs	Back-to-Front

PSU FRUs (power cord not included)

Model Number	PSU	Air flow	Region (Power Cord)
XDC401-32D-A-PSU-AC1-F	AC	Font-to-Back	Worldwide
XDC401-32D-A-PSU-AC1-B	AC	Back-to-Front	Worldwide
XDC401-32D-A-PSU-AC-F	AC	Font-to-Back	Worldwide except Japan, Taiwan
XDC401-32D-A-PSU-AC-B	AC	Back-to-Front	Worldwide except Japan, Taiwan
XDC401-32D-A-PSU-DC-F	48VDC	Font-to-Back	Worldwide
XDC401-32D-A-PSU-DC-B	48VDC	Back-to-Front	Worldwide

48VDC, 1600 W max. (includes 6/8AWG (4.3/6.4mm<sup>2</sup>) power cord 3 x ring terminal to 3 x ring terminal, 3m)

Model Number	Airflow
XDC400-32X-A-FAN-F	Front-to-Back
XDC400-32X-A-FAN-B	Back-to-Front

	Part Number	Description
C SONiC 1 Year	XDC401-32X-A-CNOS-1Y	Community SONIC support 1 year
C SONiC 2 Years	XDC401-32X-A-CNOS-2Y	Community SONIC support 2 years
C SONiC 3 Years	XDC401-32X-A-CNOS-3Y	Community SONIC support 3 years

### For More Information

To find out more about Exaware Routing products and solutions, visit [www.exaware.com](http://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](http://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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