



The Exaware XDC400-32DL is a leaf 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, 1 x 200 GbE or 1 x 100 GbE, or via breakout cables 2 x 200GbE, 4 x 100 GbE, or 4 x 25 GbE. The XDC400-32DL can be deployed as a Top-of-Rack or leaf switch supporting 100/200/400 GbE 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, plus commercial NOS offerings.

KEY FEATURES AND BENEFITS

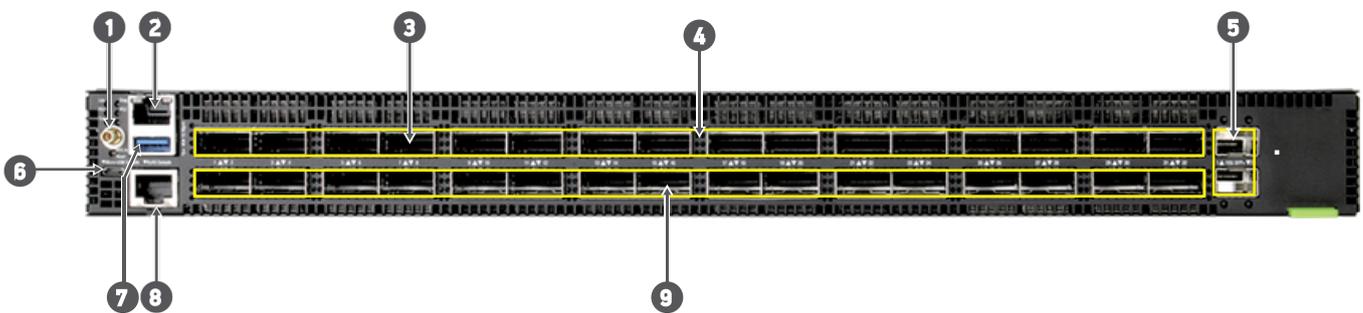
- QSFP56-DD switch ports, each supporting 1 x 400 GbE, or via breakout cables 2 x 200G GbE or 4 x 100 GbE.
Upper 16 ports support up to 24 W per transceiver.
Lower 16 ports support up to 14 W per transceiver.
- QSFP56-DD switch ports also support 200G QSFP56, 100GbE QSFP28 and 40GbE QSFP+, and via breakout cables 4 x 25GbE or 4 x 10 GbE.
- Supports 400G ZR / Open ZR+ coherent transceivers in the upper 16 QSFP56-DD ports.
- Incorporates Broadcom Trident 4 switch series silicon.
- 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 PSUs.
- 5+1 redundant, hot-swappable fan modules.
- The switch is available with SONiC distribution with support by Exaware.



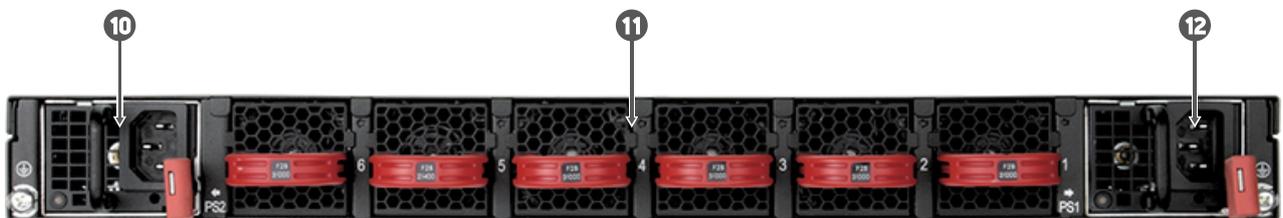
SW OPTIONS



FRONT VIEW



BACK VIEW



Description

1. 1PPS SMB connector Input/output	7. Micro USB console port (higher priority)
2. RJ-45 management port	8. RJ-45 console port
3. 16 x 400G QSFP56-DD ports supporting up to 24W per port, supports 400G ZR/OpenZR+ transceivers.	9. 16 x 400G QSFP56-DD ports supporting up to 14W per port
4. Port indicators	10. PSU 2
5. 2 x 10G SFP+ ports	11. Hot-swappable 5 + 1 redundant fans
6. USB storage port	12. PSU 1

PORTS

- Switch Ports: 32 x QSFP56-DD 40/100/200/400GbE
- Logical Ports: Max. 144
- Port Modes:
- 1 x 400G (8 lanes 50G PAM4) QSFP56-DD 2 x 200G (4 lanes 50G PAM4) QSFP56-DD breakout 1 x 200G (4 lanes 50G PAM4) QSFP56 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) QSFP56-DD breakout 4 x 10G (1 lane 10G NRZ) QSFP56-DD 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 2 x SFP+ 10G 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.

KEY COMPONENTS

- Switch Silicon: BCM56880 Trident 4 12.8 Tb/s
- CPU Modules:
Processor: Intel® Pentium® 4-Core
SPI Flash: 32MB x 2 Memory: 16GB
DDR4 SO-DIMM with ECC Storage:
64GB NVMe SSD TPM: TPM2.0

PERFORMANCE

- Switching Capability: 12.8 (25.6) Tbps
- Jumbo frames support up to 9416 bytes
- Packet Buffer Size: 132 MB SmartBuffer
- Subject to NOS: MAC Addresses: max. 384K

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 – 70°C (-40°F – 158°F)
- Operating Temperature:
- (FtoB): 0°C – 45°C (32°F – 113°F) (BtoF): 0° C – 35° C (32°F – 95°F)
- Operating Humidity: 5% – 95% non-condensing

POWER

- PSUs: 2 redundant, load-sharing, hot-swappable AC or 48VDC
- AC PCU:
AC input ranges: 100-127 VAC at 50-60 Hz (12 A/1000 W max.)* 200-240 VAC at 50-60 Hz (8 A/1500 W max.)
*200-240 VAC may be required for power redundancy under full loading.
AC Inlet: IEC 60320 C14
- DC PSU:
48 VDC input ranges: -40 – -75 VDC (40 A/1600 W max.) DC Inlet: Terminal screws
- Power Draw: Min. (w/o transceivers): 386 W
- Power Budget: 24 W on upper 16 ports, 14 W on lower 16 ports

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.

REGULATORY

- Emissions:
EN 55032 / CISPR 32 Class A
AS/NZS CISPR 32 Class A
EN 61000-3-2
EN 61000-3-3
FCC Title 47, Part 15, Subpart B Class A
ICES-003 Issue 7 Class A
VCCI-CISPR 32 Class A
CNS 15936 Class A
TEC
- Immunity:
EN 55035
EN 55024
EN 300 386
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)
CNS 15598-1
- Environmental:
GR63-CORE (Pre-test)
- RoHS-2.0 Compliant
- Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)
- Country of Origin: Taiwan (TAA Compliant)

WARRANTY

Please check www.exaware.com for the warranty terms in your country.

Base Model: XDC400-32DL; Intel® Pentium® Processor 4-Core; 32-Port 400G QSFP56-DD; ONIE Software Installer.

Model Number	PSU	Airflow	Region (Power Cord)
XDC400-32DL-A-AC-F	PSUs Dual AC	Power airflow	without power cord
XDC400-32DL-A-AC-B	PSUs	Power-to-Port airflow	without power cord

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

Model Number	PSU	Air flow	Region (Power Cord)
XDC400-32DL-A-AC-F-UN	PSUs Dual AC	Front-to-Back	IEC 60320 C13-C14
XDC400-32DL-A-AC-B-UN	PSUs Dual AC	Back-to-Front	IEC 60320 C13-C14
XDC400-32DL-A-AC-F-EU	PSUs Dual AC	Front-to-Back	IEC 60083 Type E/F (CEE 7/7) EU
XDC400-32DL-A-AC-B-EU	PSUs Dual AC	Back-to-Front	IEC 60083 Type E/F (CEE 7/7) EU
XDC400-32DL-A-AC-F-UK	PSUs Dual AC	Front-to-Back	IEC 60083 Type G (BS 1363) UK
XDC400-32DL-A-AC-B-UK	PSUs Dual AC	Back-to-Front	IEC 60083 Type G (BS 1363) UK
XDC400-32DL-A-AC-F-CN	PSUs Dual AC	Front-to-Back	IEC 60083 Type I (GB 2099.1) CN
XDC400-32DL-A-AC-B-CN	PSUs	Back-to-Front	IEC 60083 Type I (GB 2099.1) CN

100-127 VAC, 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)
XDC400-32DL-A-AC-F-US	PSUs Dual AC	Front-to-Back	NEMA 5-15 (UL)
XDC400-32DL-A-AC-B-US	PSUs Dual AC	Back-to-Front	NEMA 5-15 (UL)
XDC400-32DL-A-AC-F-JP	PSUs Dual AC	Front-to-Back	JIS C 8303, Class
XDC400-32DL-A-AC-B-JP	PSUs Dual AC	Back-to-Front	I JIS C 8303, Class
XDC400-32DL-A-AC-F-TW	PSUs Dual AC	Front-to-Back	I NEMA 5-15 (BSMI)
XDC400-32DL-A-AC-B-TW	PSUs	Back-to-Front	NEMA 5-15 (BSMI)

48 VDC, 1600 W max. (includes 6/8 AWG (4.3/6.4mm²) power cord 3 x Ring terminal to 3 x Ring terminal, 3m)

Model Number	PSU	Airflow	Region (Power Cord)
XDC400-32DL-A-48V-F	PSUs Dual 48VDC	Front-to-Back	3xRing-3xRing, 6/8AWG (4.3/6.4mm ²)
XDC400-32DL-A-48V-B	PSUs	Back-to-Front	3xRing-3xRing, 6/8AWG (4.3/6.4mm ²)

PSU FRUs (Power Cord not included)

Model Number	PSU	Air flow
XDC400-32DL-A-PSU-AC-F	AC	Front-to-Back
XDC400-32DL-A-PSU-AC-B	AC	Back-to-Front
XDC400-32DL-A-PSU-DC-F	48VDC	Front-to-Back
XDC400-32DL-A-PSU-DC-B	48VDC	Back-to-Front

AN FRUs

Model Number	Air flow
FAN-1U-1x1N-F	Front-to-Back
FAN-1U-1x1N-B	Back-to-Front

Accessories

Model Number	Air flow
RKIT-100G-SLIDE	Tool-less Rack Mounting Rail Slide Kit (674 mm - 919 mm ±3 mm)

	Part Number	Description
C SONiC 1 Year	XDC400-32DL-A-ENOS-1Y	Community SONIC support 1 year
C SONiC 3 Years	XDC400-32DL-A-ENOS-3Y	Community SONIC support 3 years
C SONiC 5 Years	XDC400-32DL-A-ENOS-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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