Exaware

XDC400-64D

The Exaware XDC400-64D is a spine switch for high-performance data centers. The switch provides line-rate L2 and L3 switching across the 64 x QSFP56-DD ports, each supporting 1 x 400G QSFP56-DD, 1 x 100G QSFP28, 1 x 40G QSFP+, or via breakout cables 2 x 200G (2 x 4 lanes 50G PAM4), 4 x 100G (4 x 2 lanes 50G PAM4), 2 x 50G (2 x 2 lanes 25G NRZ), 4 x 25G NRZ, or 4 x 10G NRZ. The XDC400-64D can be deployed as a spine switch supporting 100/400 GbE spine to spine or spine to leaf interconnects. This open network switch is available with Exaware SONiC support.

KEY FEATURES AND BENEFITS

- QSFP56-DD switch ports, each supporting 1 x 400G QSFP56-DD, 1 x 100G QSFP28, 1 x 40G QSFP+, or via breakout cables 2 x 200G (2 x 4 lanes 50G PAM4), 4 x 100G (4 x 2 lanes 50G PAM4), 2 x 50G (2 x 2 lanes 25G NRZ), 4 x 25G NRZ, or 4 x 10G NRZ.
- Incorporates Broadcom Tomahawk 4 switch series silicon.
- 2 RU form factor.
- Supports hot/cold aisles with front-to-back airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant 2400 W AC/HVDC PSUs.
- 3+1 redundant, hot-swappable fan modules.
- The switch is pre-loaded with Open Network Install Environment (ONIE) and SONiC distributions, with support by Exaware.
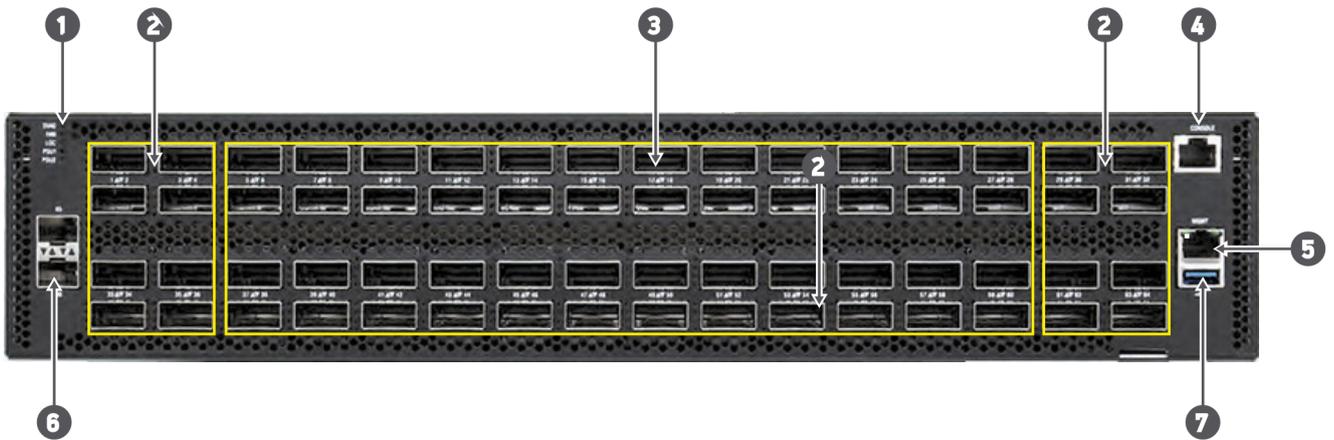
SONiC

Freedom of Choice

Greater Control

Rapid Innovation

SW options

onie

SONiC

Front View

Back View

Description

1.	System LEDs	6.	USB storage port
2.	16 x 400G QSFP56-DD ports (24 W) Support 400G QSFP56-DD DAC up to 2.5 m	7.	PSU 1
3.	48 x 400G QSFP56-DD ports (13 W) Support 400G QSFP56-DD DAC up to 1 m	8.	Hot-swappable 3 + 1 redundant fans
4.	Console port	9.	PSU 2
5.	RJ-45 management port	10.	Grounding point
6.	RJ-45 management port		

PORTS

- Switch Ports: 64 x QSFP56-DD 400 GbE
- 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+ 2 x 50G (2 lanes 25G NRZ) QSFP28 breakout 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 RJ-45 1000BASE-T management 2 x SFP+ 10G management 1 x USB 2.0 storage port
- Supported Transceivers and Cables: 100GBASE-SR4/CWDM4/LR4 100G-DAC/AOC Cable 400BASE-FR4 400G-DAC/AOC Cable
- Note: More optics and detaile www.exaware.com

KEY COMPONENTS

- Switch Silicon: BCM56990 Tomahawk 4
- CPU Modules: Intel® Xeon® Processor D-1548 8-Core 2.0 GHz DDR4: 16 GB x 2 SO-DIMM m.2 SSD: 128GB x 1

PERFORMANCE

- Switching Capability: 25.6 Tbps full duplex
- Forwarding Rate: 10.42 Bpps
- Jumbo frames support up to 9416 bytes
- Packet Buffer Size: Integrated 113.66 MB packet buffer
- Subject to NOS: MAC Addresses: 8K for exact match 128K without exact match

PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 44 x 64.92 x 87 cm (17.32 x 25.56 x 34.25 in)
- Weight: 21.5 kg (47.4 lb), with 2 PSUs and 4 fans installed
- Fans: Hot-swappable 3 + 1 redundant fans
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Temperature: (FtoB): 0°C~40°C (32°F~104°F) 0~40°C (32°F~104°F) at sea level, 0~35°C (32°F~95°F) at 1828 m (6000 ft)
- Operating Humidity: 5% ~ 95% non-condensing
- Operating Altitude: 0-1828 m (0~6000 ft)

SOFTWARE

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

SYSTEM AND PORT LEDS

- QSFP56-DD Port LEDs: 400G (1 x 8 lanes 50G PAM4): Blue 200G (2 x 4 lanes 50G PAM4): Cyan 100G (4 x 2 lanes 50G PAM4): Green 100G (1 x 4 lanes 25G NRZ): Green 40G (1 x 4 lanes 10G NRZ): Dark Green 50G (2 x 2 lanes 25G NRZ): Red 25G (4 x 1 lane 25G NRZ): Orange 10G (4 x 1 lane 10G NRZ): Yellow
- Management Port LEDs: SFP+: Left: Green (10G link), Amber (1G link) Right: Green (10G activity), Amber (1G activity) RJ-45: Left: Green (1G link), Amber (10/100M link) Right: Green (1G activity), Amber (10/100M activity)
- System LEDs: PSU1, PSU2, FAN, STAT, and LOC
- Reset button

POWER

- PSUs: 2 redundant, load-sharing, hot-swappable 2400 W AC/HVDC power supplies
- AC PSU Input Power Rating: 100–127 VAC, 50/60 Hz, 12 A maximum 200–240 VAC, 50/60 Hz, 15 A maximum HVDC: 240 VDC, 15 A maximum
- Power Draw: 287.75 W (min.), 2100 W (max.)
- Power Budget: Ports 1, 2, 3, 4, 29, 30, 31, 32, 33, 34, 35, 36, 61, 62, 63, 64: 24 W per transceiver All other ports: 13 W per transceiver

REGULATORY

- Emissions: EN 55032 Class A EN 61000-3-2 EN 61000-3-3 VCCI-CISPR 32 Class A AS/NZS CISPR 32 Class A ICES-003 Issue 7 Class A FCC Class A
- Immunity: EN 55035 IEC 61000-4-2/3/4/5/6/8/11
- Safety: 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)

Base Model: XDC400-64D; Intel® Xeon® D-1548 Processor 8-Core; 64-Port 400G QSFP56-DD; ONIE Software Installer.

Model Number	PSU	Airflow	Region (Power Cord)
DC400-64D-A-AC-F	Dual AC PSUs	Front-to-Back airflow	HVAC to IEC 60320 C20 (1m)

	Part Number	Description
C SONiC 1 Year	XDC400-64D-A-ENOS-1Y	Community SONIC support 1 year
C SONiC 2 Years	XDC400-64D-A-ENOS-2Y	Community SONIC support 2 years
C SONiC 3 Years	XDC400-64D-A-ENOS-3Y	Community SONIC support 3 years

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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.