



The Exaware XDC100-64X is a Top-of-Rack (TOR) or spine switch for high-performance data centers. The switch provides line-rate L2 and L3 switching across the 64 x QSFP28 ports, each supporting 1 x 100 GbE or 1x 40 GbE, or via breakout cables 4 x 25 GbE or 4 x 10 GbE to a maximum of 128 logical ports. The XDC100-64X can be deployed as a TOR switch supporting 10/25 GbE to servers with 40/100 GbE uplinks, or as a spine switch supporting 40/100 GbE spine interconnects. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including SONiC distributions. This open network switch is available with Exaware SONiC support.

KEY FEATURES AND BENEFITS

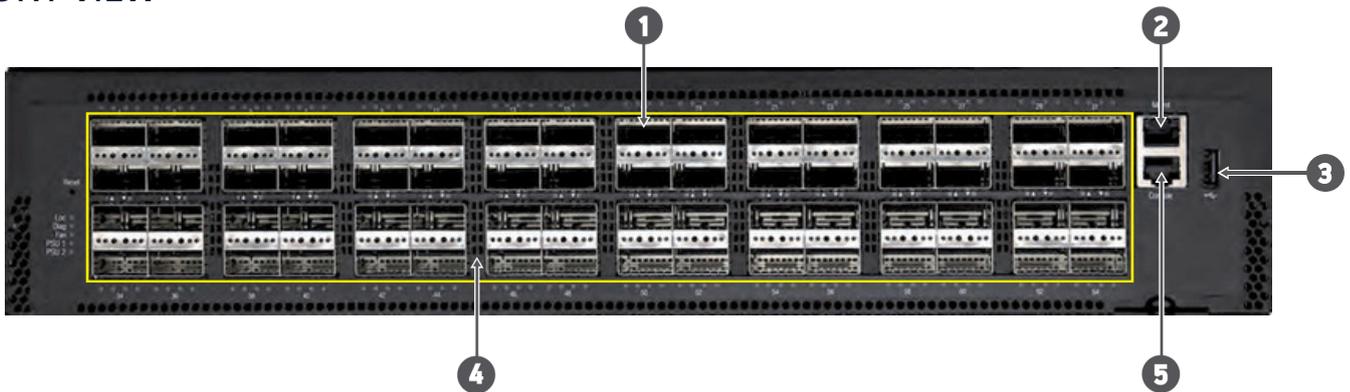
- 64 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables 4 x 25 GbE or 4 x 10 GbE to a maximum of 128 logical ports.
- Incorporates Broadcom StrataXGS Tomahawk II switch series silicon.
- High performance Intel® Xeon® D-1518 CPU.
- 2 RU form factor.
- Supports hot/cold 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 850 W PSUs.
- 3+1 redundant, hot-swappable fan modules.
- The switch available with SONiC distribution with support by Exaware.



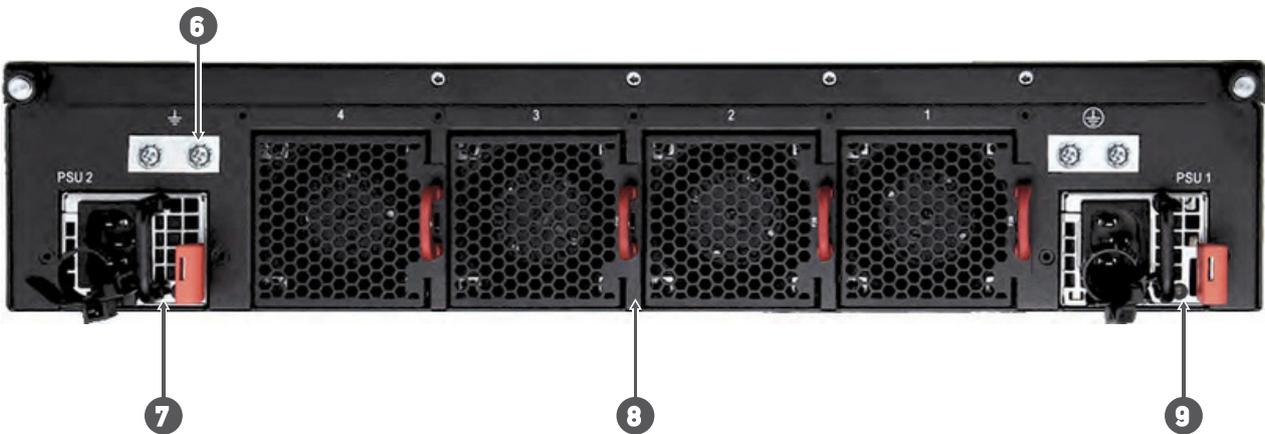
SW OPTIONS



FRONT VIEW



BACK VIEW



Description

1. 64 x 100G QSFP28 ports	6. Grounding point
2. Management port	7. PSU 2 (XDC100-64 series)
3. USB storage port	8. Hot-swappable 3 + 1 redundant fans
4. Port LED indicators	9. PSU 1 (XDC100-64 series)
5. Console port	

PORTS

- Switch Ports: 64 x QSFP28 100 GbE, maximum 128 logical interfaces through breakout cables.
- Management ports on port side:
 - 1 x RJ-45 serial console
 - 1 x RJ-45 1000BASE-T management
 - 1 x USB Type A storage
 - Supported Transceivers and Cables:
 - 40GBASE-SR4/LR4 40G-DAC/AOC Cable
 - 100GBASE-SR4/CWDM4/LR4
 - 100G-DAC Cable
- Note: More optics and detailed cabling information can be found at www.exaware.com.

KEY COMPONENTS

- Switch Silicon: BCM56970 Tomahawk 2
- CPU Modules:
 - Intel® Xeon® D-1518 4-Core 2.2 GHz 8 GB x 2 2133MHz with ECC (DDR4 SO-DIMM) 16 MB x 2 SPI Flash (Boot) m.2 SSD: 32 GB MLC Reserve mSATA connector

PERFORMANCE

- Switching Capability: 6.4 Tbps full duplex
- Forwarding Rate: 4.2 bpps
- Jumbo frames support up to 9 Kbytes
- Packet Buffer Size: 42 MB integrated packet buffer
- Subject to NOS:
 - MAC Addresses: 8 K min./264 K max.
 - VLAN IDs: 4 K
 - IPv4: 76 K min./128 K max. L3 hosts/extended view; IPv4/32: 16 K min./64 K max. L3 hosts/extended view; IPv6/64: 16 K LPM entries with TCAM-only mode

PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 43.84 x 58.0 x 8.77 cm (17.26 x 22.83 x 3.45 in)
- Weight: 14.11 kg (31.1 lb)
- Fans: Hot-swappable 3 + 1 redundant fans
- Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
- Storage Temperature: -40°C ~ 70°C (-40°F ~ 158°F)
- Operating Humidity: 5% ~ 95% non-condensing

QSFP28 PORT LEDS

- LED1: Blue (100 G), Orange (40 G), White (25 G), Green (10 G)
- LED2~LED4: White (25 G), Green (10 G)
- Management Port LED: Green: (10 M/100 M/1 G), Flashing: Activity
- System LEDs: PSU1, PSU2, Fan, Diag, and Loc
- Reset button

SOFTWARE

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

REGULATORY

- EMI
 - CE Mark
 - EN 55032
 - AS/NZS CISPR 32
 - EN 55024
 - EN 61000 3-2
 - EN 61000 3-3
 - CISPR 32
 - FCC Part 15 Subpart B Class A
 - VCCI Class A
 - Safety
 - CB
 - UL
 - Environmental:
 - GR63-CORE (Pre-test)
 - RoHS-6 Compliant
 - Country of Origin: Taiwan (TAA Compliant) Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

Layer 2

- DHCP Snooping
- IGMP Snooping
- LAG (LACP)
- LLDP
- MAC Aging
- MC-LAG
- MSTP
- Port Mirroring
- QinQ (802.1Q Tunneling)
- STP/PVST
- TPID Configuration
- VLAN Translation
- VLAN/VLAN Trunk

Layer 3

- BGP
- BGP Graceful Restart
- BGP Graceful Restart Helper
- BGP Multi-protocol
- BGP Unnumbered Links
- Critical Resource Monitoring
- ECMP
- EVPN/VxLAN
- VPN Multihoming
- IPv6
- IS-IS
- NAT
- OSPF
- Proxy ARP
- Static Anycast Gateway
- VRF
- VRRP
- VxLAN

Security Features

- COPP
- Ingress/Egress ACL Permit/Deny
- Port MAC Security
- RADIUS
- TACACS+

QoS

- Asymmetric PFC
- CoS
- Differentiated Services (DiffServ)
- DSCP
- ECN
- Egress Port Shaping (port, queue)
- Ingress ACL-based Mirroring (ERSPAN)
- PFC-WD
- PFC Watermark
- Port Rate Limiting
- Priority Flow Control (PFC)
- WRED

Management and Monitoring Features

- CLI/SSH
- DHCPv6 Relay

- Dynamic Port Breakout
- Everflow
- Fast Reload
- Kubernets
- Management VRF
- MTU Setting
- NTP
- Object Track for Port Interface

OpenSSH/SCP/SFTP

- PINS
- Platform Monitoring
- Port Speed Setting
- RoCEv2
- Sensor Transceiver Monitoring
- sFlow
- SNMP/SNMPv2
- Telemetry Support
- Thermal Monitor
- Warm Reboot
- Zero Touch Provisioning (ZTP)

Standards Compliance

- RFC792 ICMP Specifications
- RFC1157 Simple Network Management Protocol (SNMP)
- RFC1213 MIB-II Specifications
- RFC1213 Management Information Base for Network Management of TCP/IP-based internets: MIB-II
- RFC1267 Border Gateway Protocol 3 (BGP-3)
- RFC1771 A Border Gateway Protocol 4 (BGP-4)
- RFC1772 Application of the Border Gateway Protocol in the Internet
- RFC1901 Introduction to Community-based SNMPv2
- RFC1902 Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)
- RFC1905 Protocol Operations for Version 2 of the Simple Network Management Protocol (SNMPv2)
- RFC1907 SNMP MIB Specifications
- RFC1965 AS Confederations for BGP
- RFC1966 BGP Specifications
- RFC1981 Path MTU Discovery for IP version 6
- RFC1997 BGP Communities Attribute
- RFC2011 IP MIB Specifications
- RFC2012 Management Information Base for the Transmission Control Protocol (TCP)
- RFC2013 SNMPv2 Management Information Base for the User Datagram Protocol using SMIv2
- RFC2068 HTTP Specifications
- RFC2101 IPv4 Address Behaviour Today
- RFC2138 RADIUS Specifications
- RFC2270 Using a Dedicated AS for Sites Homed to a Single Provider
- RFC2283 Multiprotocol Extensions for BGP-4
- RFC2328 OSPF Specifications
- RFC2370 OSPF Opaque LSA Option Specifications
- RFC2373 IP Version 6 Addressing Architecture
- RFC2374 An IPv6 Aggregately Global Unicast Address Format
- RFC4760 Multiprotocol Extensions for BGP-4
- RFC7348 Virtual eXtensible Local Area Network (VXLAN): A Framework for Overlaying Virtualized Layer 2 Networks over Layer 3 Networks
- IEEE802.1D Spanning Tree Protocol
- IEEE802.1p Priority tagging implementation idea
- IEEE802.1AB Link Layer Discovery Protocol
- IEEE802.1ad QinQ, VLAN Stacking
- IEEE802.3ad Link aggregation (LAG), bound mode 4 (LACP)

Base Model: XDC100-64-AZ series; Intel® Xeon® D-1518 Processor 4-Core; 64-Port 100G QSFP28; ONIE Software Installer; port, fan and PSU numbering start at zero.

Model Number	PSU	Airflow	Region (Power Cord)
XDC100-64X-A-AC-F-US	Dual AC PSUs	Front-to-Back Airflow	N. America
XDC100-64X-A-AC-B-US	Dual AC PSUs	Back-to-Front Airflow	N. America
XDC100-64X-A-AC-F-EU	Dual AC PSUs	Front-to-Back Airflow	EU
XDC100-64X-A-AC-B-EU	Dual AC PSUs	Back-to-Front Airflow	EU
XDC100-64X-A-AC-F-UK	Dual AC PSUs	Front-to-Back Airflow	UK
XDC100-64X-A-AC-B-UK	Dual AC PSUs	Back-to-Front Airflow	UK
XDC100-64X-A-AC-F-JP	Dual AC PSUs	Front-to-Back Airflow	JP
XDC100-64X-A-AC-B-JP	Dual AC PSUs	Back-to-Front Airflow	JP
XDC100-64X-A-AC-F-UN	Dual AC PSUs	Front-to-Back Airflow	C13 - C14 Power Cord
XDC100-64X-A-AC-B-UN	Dual AC PSUs	Back-to-Front Airflow	C13 - C14 Power Cord

FRU Model Number	Air flow
XDC100-64X-A-PSU-AC-F	AC Front-to-Back
XDC100-64X-A-PSU-AC-B	AC Back-to-Front
XDC100-64X-A1-PSU-AC-F	AC Front-to-Back
XDC100-64X-A1-PSU-AC-F	AC Back-to-Front
XDC100-64X-A-PSU-DC-F	DC Front-to-Back
XDC100-64X-A-PSU-DC-B	DC Back-to-Front

Part Number	Description
XDC100-CNOS-1Y	SONiC support & maintenance - 1 year
XDC100-CNOS-3Y	SONiC support & maintenance - 3 years
XDC100-CNOS-5Y	SONiC support & maintenance - 5 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>.

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