



The Exaware XDC100-32X switch is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across the 32 x QSFP28 ports. Each QSFP28 port can be set to 2x50G, 4x25G, 1x40GbE or 4x10GbE. The XDC100-32X can be deployed as a TOR switch supporting 10/25/50 GbE to servers with 40/50/100 GbE uplinks, or as a spine switch supporting 40/50/100 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 software, including SONiC distributions. This open network switch is available with Exaware SONiC support.

KEY FEATURES AND BENEFITS

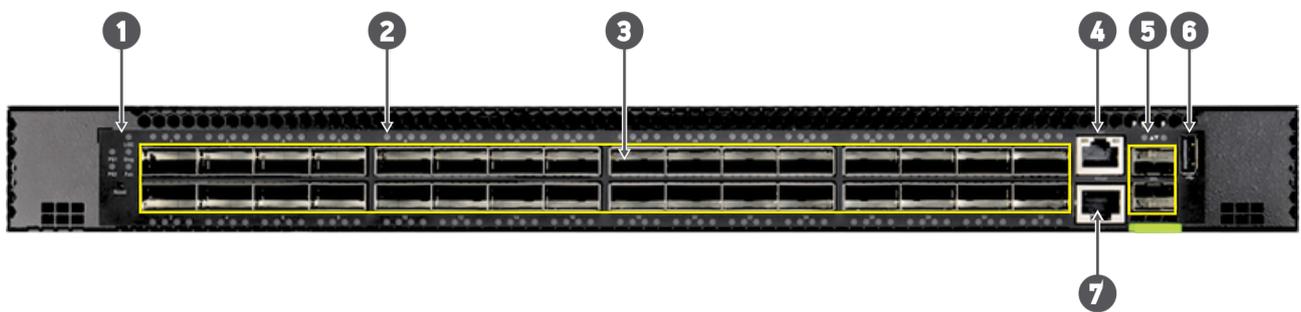
- Deploy as top-of-rack switch supporting 10 or 25 GbE to servers, with 40 GbE, 50 GbE, or 100 GbE uplinks.
- Deploy as spine switch supporting 40 GbE, 50 GbE, or 100 GbE ToR and spine interconnects.
- 32 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables, 2 x 50 GbE, 4 x 25 GbE or 4 x 10GbE.
- Layer 2 or Layer 3 forwarding of 3.2 Tbps.
- Supports hot/cold aisle 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 AC or -48V DC PSUs.
- 5+1 redundant, hot-swappable fan modules.
- Energy efficient.
- The switch available with SONiC distribution with support by Exaware.



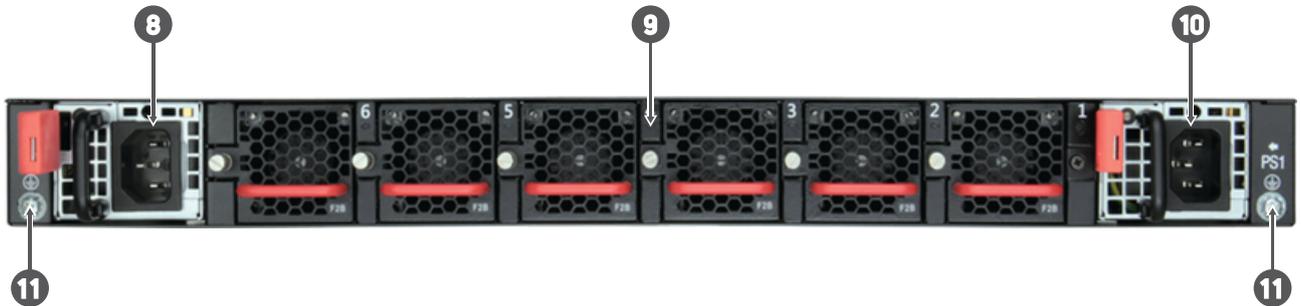
SW OPTIONS



FRONT VIEW



BACK VIEW



Description

1. System LEDs	7. Console port
2. Port indicators	8. PSU 2
3. 32x 100G/QSFP28 ports	9. Hot-Swappable 5+1 redundant fans
4. Management port	10. PSU 1
5. 10G management port	11. Grounding poin
6. USB storage port	

PORTS

- Switch Ports: 32 x QSFP28 40/100G GbE
 - Logical Ports: Max. 128
 - Port Modes:
 - 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) QSFP28 breakout 4 x 10G (1 lane 10G NRZ) QSFP+ breakout
 - Management Ports on Port Side:
 - 1 x RJ-45 serial console 1 x RJ-45 1000BASE-T management 2 x SFP+ 10G management ports 1 x USB Type A storage
 - Supported Transceivers and Cables:
- 40GBASE-SR4/LR4 40G-DAC/AOC Cable 100GBASE-SR4/CWDM4/LR4/ER4/ZR4/PSM4-2/DR1/FR1/LR1 100G-DAC/AOC Cable
- Note: More optics and detailed cabling information can be found at www.exaware.com.

KEY COMPONENTS

- Switch Silicon: Broadcom BCM56870 Trident 3
 - CPU Modules:
- Processor: Intel® Xeon® 4-Core SPI
Flash: SPI Flash: 16 MB x 2 Memory: DDR4: SO-DIMM 8 GB x 2 Storage: m2
SSD: 64 GB MLC TPM: TPM1.2

PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 43.84 x 51.5 x 4.35 cm (17.25 x 20.27 x 1.71 in.)
- Weight: 10.87 kg (23.96 lb.), with two installed PSUs
- Fans: Hot-swappable 5+1 redundant fans
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Operating Humidity: 5% to 95% non-condensin

POWER

- PSUs: 2 redundant, load-sharing, hot-swappable 650W AC or -48 VDC
 - AC PCU: AC input range: 100-240 VAC at 50-60 Hz (6A/650 W max.) AC Inlet: IEC 60320 C14
 - DC PSU:
- 48 VDC input ranges: -36 - -72 VDC (16A/650 W max.) DC Inlet: Positronic PLA03F7000/AA
- Power Draw:
- Minimum: 149.8 W Typical: 296.73 W
- Note: Minimum means idle, no transceivers, no traffic. Typical means 32 x 100G SR4 transceivers with 30% traffic loading at 25°C ambient temperature.

SOFTWARE

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

PERFORMANCE

- Switching Capacity: 3.2 (6.4) Tbps
 - Forwarding Rate: 2003.4 Mpps
 - Jumbo frames support up to 9416 Bytes
 - Packet Buffer Size: 32 MB
 - Subject to NOS:
- MAC Addresses: 32 K min./288 K max.
VLAN IDs: 4 K IPv4: 16 K min./168 K max. host entries; 32 K LPM entries with TCAM-only mode
IPv6: 8 K min./100 K max. host entries; IPv6/128= 8 K TCAM-only mode

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: XDC100-32X; Intel® Xeon® Processor 4-Core; 32-Port 100G QSFP28; ONIE Software Installer.

Model Number	PSU	Airflow	Region (Power Cord)
XDC100-32X-A-AC-F	Dual AC PSUs	Front-to-Back	without power cord
XDC100-32X-A-AC-B	Dual AC PSUs	Back-to-Front	without power cord
XDC100-32X-A-AC-F-UN	Dual AC PSUs	Front-to-Back	IEC 60320 C13-C14
XDC100-32X-A-AC-B-UN	Dual AC PSUs	Back-to-Front	IEC 60320 C13-C14
XDC100-32X-A-AC-F-US	Dual AC PSUs	Front-to-Back	NEMA 5-15 (UL)
XDC100-32X-A-AC-B-US	Dual AC PSUs	Back-to-Front	NEMA 5-15 (UL)
XDC100-32X-A-AC-F-EU	Dual AC PSUs	Front-to-Back	IEC 60083 Type E/F (CEE 7/7) EU
XDC100-32X-A-AC-B-EU	Dual AC PSUs	Back-to-Front	IEC 60083 Type E/F (CEE 7/7) EU
XDC100-32X-A-AC-F-UK	Dual AC PSUs	Front-to-Back	IEC 60083 Type G (BS 1363) UK
XDC100-32X-A-AC-B-UK	Dual AC PSUs	Back-to-Front	IEC 60083 Type G (BS 1363) UK
XDC100-32X-A-AC-F-JP	Dual AC PSUs	Front-to-Back	JIS C 8303, Class I
XDC100-32X-A-AC-B-JP	Dual AC PSUs	Back-to-Front	JIS C 8303, Class I
XDC100-32X-A-AC-F-CN	Dual AC PSUs	Front-to-Back	IEC 60083 Type I (GB 2099.1) CN
XDC100-32X-A-AC-B-CN	Dual AC PSUs	Back-to-Front	IEC 60083 Type I (GB 2099.1) CN
XDC100-32X-A-AC-F-TW	Dual AC PSUs	Front-to-Back	NEMA 5-15 (BSMI)
XDC100-32X-A-AC-B-TW	Dual AC PSUs	Back-to-Front	NEMA 5-15 (BSMI)
XDC100-32X-A-48V-F	Dual DC PSUs	Front-to-Back	without power cord
XDC100-32X-A-48V-B	Dual DC PSUs	Back-to-Front	without power cord

PSU FRUs (Power Cord not included)

Model Number	PSU	Air flow
XDC100-32X-A-PSU-AC-F	AC	Front-to-Back
XDC100-32X-A-PSU-AC-B	AC	Back-to-Front
XDC100-32X-A-PSU-DC-F	DC	Front-to-Back
XDC100-32X-A-PSU-DC-B	DC	Back-to-Front

FAN FRUs

Model Number	Air flow
XDC100-32X-A-FAN-F	Front-to-Back
XDC100-32X-A-FAN-B	Back-to-Front

Accessories

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

Part Number	Description
XDC100-32X -A-CNOS-1Y	SONiC support & maintenance - 1 year
XDC100-32X -A-CNOS-2Y	SONiC support & maintenance - 3 years
XDC100-32X -A-CNOS-3Y	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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