

# EXA2400-30X



The Exaware's EXA2400-30X is a high-performance 100GbE aggregation router that consists of fixed 2 x 400G QSFP-DD (21.3 W), 2 x 400G QSFP-DD (16.5 W), 4 x 100G QSFP-DD (16.5 W), 18 x 100G QSFP28 (5 W), and 4 x 25G SFP28 (2 W) network interfaces in a 2RU compact design that can be deployed as a disaggregated or standalone router.

The EXA2400-30X is engineered with the latest Broadcom StrataDNX™ Qumran2C silicon that targets use cases including OpenBNG, 100GbE aggregation router, PE router, or data center TOR switch/router.

The EXA2400-30X is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source option Open Network Linux (ONL), plus commercial NOS offerings.

## KEY FEATURES AND BENEFITS

- High-performance 100GbE router for telecom and data center applications
- Incorporates Broadcom StrataDNX™ Qumran2C silicon
- Supports front-to-back airflow SKUs
- Hot-swappable, load-sharing, and 1+1 redundant DC-DC/AC-DC PSUs
- 4+1 redundant, hot-swappable fan modules
- Support Synchronous Ethernet, and IEEE 1588v2 PTP

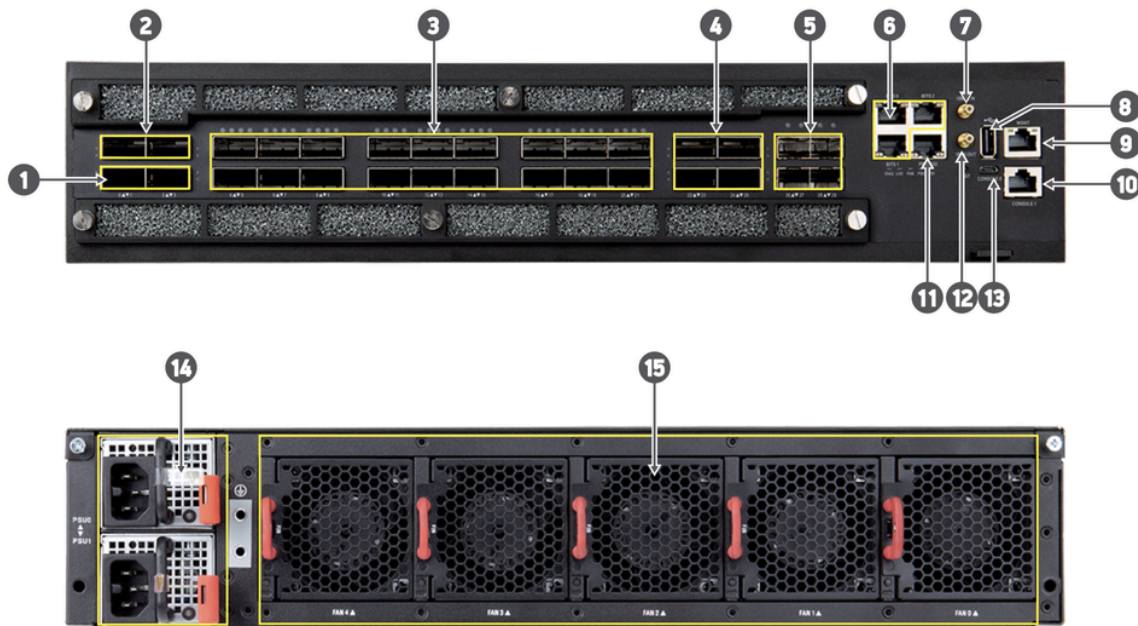
## APPLICATIONS

- Disaggregated aggregation or PE router
- Standalone 100GbE aggregation router

SOFTWARE



INTERFACES



Description

1. 2 x 400GE QSFP-DD ports (16.5 W)	9. 1 x RJ-45 management port
2. 2 x 400GE QSFP-DD ports (21.3 W)	10. 1 x RJ-45 console management port
3. 18 x 100GE QSFP28 ports (5 W)	11. 1 x RJ-45 (1PPS) port
4. 4 x 100GE QSFP-DD ports (16.5 W)	12. 1 x SMB 1PPS out
5. 4 x 1/10/25GE SFP28 ports (2 W)	13. 1 x Micro USB console port
6. 3 x RJ-45 BITS ports	14. 1+1 DC-DC/AC-DC redundant PSUs
7. 1 x SMB 10MHz in	15. 4 +1 redundant fans
8. 1 x USB Type A	

## PORTS

- Interface
  - 4 x 1G/10G/25G SFP28
  - 18 x 100G QSFP28
  - 4 x 100G QSFP-DD
  - 4 x 400G QSFP-DD
  - Supports 1GE, 10G, 40GE and 100GE modes
  - Supports standard 1GE, 10GE, 25GE, 50GE configurations by using DAC breakout cables into 2x50GE, 4x25GE, or 4x10GE
- Supported Transceivers and Cables:
  - 1000BASE-EX/ZX
  - 10GBASE-SR/LR/ER/ZR
  - 100GBASE-SR4/LR4/ER4/ZR4/PSM4-2
  - 400GBASE-ZR/ZR+
- Management Ports:
  - 1 x RJ-45 serial console port
  - 1 x RJ-45 10/100/1000BASE-T management port
  - 1 x USB (storage)
  - 1 x Micro USB console port
- Timing:
  - 3 x RJ-45 (BITS)
  - 1 x RJ-45 (1PPS)
  - 1 x SMB (1PPS out)
  - 1 x SMB (10MHz input)

## KEY COMPONENTS

- Switch Silicon: Broadcom BCM88823 Qumran-2C
- CPU Modules:
  - Intel® Xeon® D-1548 8-Core
  - SDRAM DDR4 SO-DIMM 32GB (16 GB x 2)
  - SPI Boot Flash redundant (2 x 16 MB)
  - SSD: M.2 128GB
- BMC: ASPEED AST2600

## PERFORMANCE

- Capacity: 2.4 Tb/s full duplex
- 4Gb Integrated Deep Buffering

## PSU

- DC Input: -40 - -75V, 40 A, per PS
- AC Input:
  - 100V-120V, 12 A, per PS
  - 200V-240V, 7.5 A, per PS

## PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 440 mm x 480 mm x 87 mm (2RU)
- Weight: 16 Kg with PSUs and fans
- Fans: Hot-swappable 4+1 redundant fans
- Operating Temperature/Humidity: 0°C to 45°C (32°F ~ 113°F)/5% to 85%

## POWER CONSUMPTION

- Max: 527 W
- Typical: 186 W

## REGULATORY: (PRELIMINARY)

- Safety
  - UL (CAN/CSA 22.2 No 60950-1 & UL60950-1)
  - IEC 62368-1
  - CB (IEC/EN60950-1)
- Electromagnetic Compatibility
  - CE Mark:
  - EN 55032 Class A
  - EN 55024 (Immunity) for Information Technology Equipment
  - EN 61000-3-3 EN 61000-3-2
  - FCC Title 47, Part 15, Subpart B Class A
- Environmental
  - Bump: IEC60068-2-29- packaged
  - Shock: ETSI EN 300 019-2-3 -Operational Tests, Class T3.2 op
  - RoHS 2.0 Compliant
  - WEEE Standards: The switches complied with the following WEEE standards: Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

## ROUTING PROTOCOLS

- IPv4, IPv6 Dual stack
- eBGP, iBGP at scale
- MP-BGP
- Multi-AS VPN/BGP-LU
- BGP signaling for L3VPN
- BGP signaling for L2VPN
- Seamless MPLS
- L3VPN
- L2VPN
- Inter-AS L3VPN
- 6PE and 6VPE
- VPWS
- H-VPLS
- OSPFv2, v3
- IS-IS – IPv4/IPv6, Multi topology
- Route distribution across protocols
- PIM-SSM/SM
- IGMPv3
- LDP, T-LDP
- RSVP-TE
- IGP shortcut
- OSPF-TE
- ISIS-TE
- Internet Access
- NH Tracking
- VRRP V2, V3 IPv4/IPv6
- Static-Route
- BGP RPKI
- Route leak
- DHCP Snooping

## TIMING

- SyncE
- IEEE1588

## MANAGEMENT

- Hierarchical, Commit based CLI
- NETCONF
- SSH
- Telnet
- Out-of-band and in-band management
- SNMPv2/V3
- RBAC
- AAA/TACACS+/Radius
- NTP
- Syslog
- Rich, Hierarchical Policy
- Language
- Enhanced logging
- Optical monitoring

## SECURITY

- Data Path ACL
- Control Plane ACL
- Management VRF Separation
- Hardware policing for CPU traffic
- MD5 for routing protocols
- BGP FlowSpec

## HIGH AVAILABILITY

- Process restart
- Graceful restart for all routing protocols

## QOS & POLICY

- Hierarchical Shaping
- Per PORT/VLAN rate control
- WRED
- Weighted and strict priority queues
- Minimum latency queues
- 8 Queues per port/VLAN
- Ingress policing
- PRI/DSCP/EXP classification
- Flexible packet fields classification
- Ethernet EBN (MW dynamic rate)

## DATA PATH

- VLAN
- QinQ for all services
- LAG
- MPLS FRR
- IP-LFA
- Hierarchical FIB
- BGP-PIC Core/Edge
- Two level load-balancing
- VRF at scale
- BFD

## INFRASTRUCTURE

- ONIE Bootloader
- Standard ONL
- Embedded KVM Hypervisor

Ordering Part Number:

Description:

EXA2400-30X-A-AC	Router System with Software and AC Power Supplies
EXA2400-30X-A-DC	Router System with Software and DC Power Supplies
EXA2400-30X-A-NOS	Router System Software
EXA2400-30X-A-FAN	Spare Fan
EXA2400-30X-A-PSU-AC	Spare AC Power Supply
EXA2400-30X-A-PSU-DC	Spare DC Power Supply

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