



The EXA2400-30X is a high-performance 100GbE IP/MPLS 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 standalone router.

The EXA2400-30X is engineered with the latest Broadcom StrataDNX™ Qumran2C silicon that targets 100GbE to 400GbE aggregation router, PE router, or data center GW router. The EXA2400-30X is installed with ExaDOS carrier grade operating system.

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 PSUs
- 4+1 redundant, hot-swappable fan modules
- Support Synchronous Ethernet, and IEEE 1588v2 PTP
- Embedded with Exaware's carrier-grade ExaDOS system

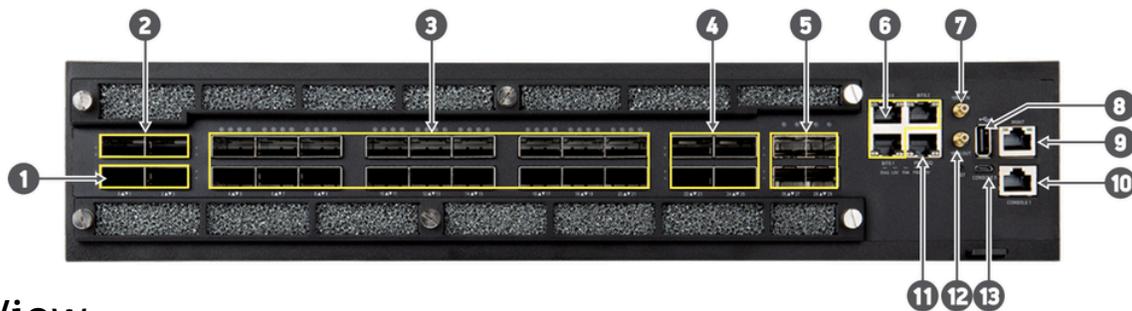
APPLICATIONS

- Edge, PE or aggregation router
- DWDM over IP
- Data Center Gateway

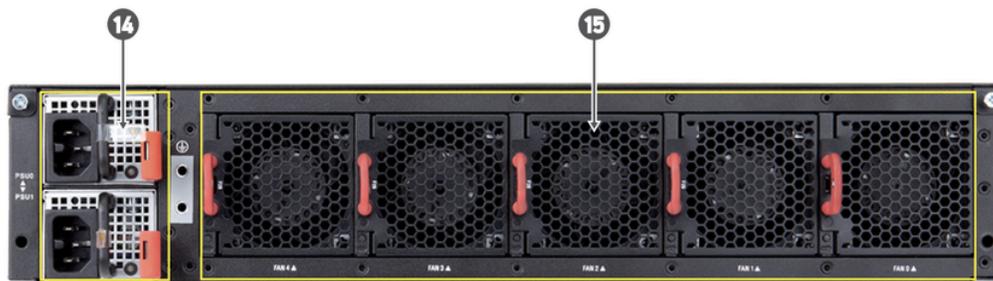
Software



Front View



Rear View



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
- BGP RPKI
- BGP signaling for L3VPN
- BGP signaling for L2VPN
- Seamless MPLS
- Inter-AS 6PE and 6VPE
- VPWS
- H-VPLS
- OSPFv2, v3
- IS-IS – IPv4/IPv6, Multi topology
- Multi instance OSPF, IS-IS
 - including OSPF, IS-IS PE-CE
- Route distribution across protocols
- LDP, T-LDP
- RSVP-TE
- Segment Routing MPLS
- IGP shortcut
- OSPF-TE
- ISIS-TE
- PIM-SSM/SM
- IGMPv3
- Internet Access
- NH Tracking
- VRRP V2, V3
- IPv4/IPv6
- Static-Route
- Route leak
- DHCP Snooping

MANAGEMENT

- Hierarchical, Commit based CLI with two-oahse commit
- 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
- LLDP

SECURITY

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

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
- Any service any port
- QinQ for all services
- LAG
- MPLS FRR
- IP-LFA
- Hierarchical FIB
- BGP-PIC Core/Edge
- Two level load-balancing
- VRF at scale
- BFD
- PW Control word

INFRASTRUCTURE

- ONIE Bootloader
- Standard ONL
- Embedded KVM Hypervisor

Ordering Part Number	Description
EXA2400-30X-A-AC	Router System, Software included, AC Power Supplies
EXA2400-30X-A-DC	Router System, Software included, DC Power Supplies
EXA2400-30X-A-FAN	Spare Fan
EXA2400-30X-A-PSU-AC	Spare AC Power Supply
EXA2400-30X-A-PSU-DC	Spare DC Power Supply
EXA-M&S-System	Annual System Maintenance and Support (M&S) including software updates, bugs fixes

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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