



The EXA7200-36XK is a high-performance IP/MPLS aggregation router featuring 12 fixed 400GbE QSFP-DD and 24 x 100GbE QSFP28 interfaces in a compact 2RU form factor. It is Powered by Broadcom StrataDNX™ Jericho2c+ with external TCAMs for enhanced scalability and routing capacity. Support of coherent 400G optics allow the router to integrate DWDM ZR+ for long haul applications, peering and data center interconnect application. Exaware's carrier grade, best of class performance operating system allows seamless integration with the existing IP/MPLS infrastructure.

KEY FEATURES AND BENEFITS

- High-performance 400GbE router for Telecom and Data Center applications
- Incorporates Broadcom StrataDNX™ Jericho2c+ Silicon
- Up to 8 GB on-chip HBM deep packet buffer for lossless forwarding
- Supports Front-to-Back Airflow SKU
- Hot-Swappable, Load-sharing, 1+1 redundant AC/-48VDC PSUs
- 3+1 Redundant, Hot-Swappable Fan Modules
- Precision Timing: SyncE and IEEE 1588v2 PTP support
- Coherent optics on 400GbE — eliminates external transponders for DCI
- Fault isolation for malfunctioning transceivers
- ONIE bootloader pre-loaded; compatible with ONL and commercial NOS

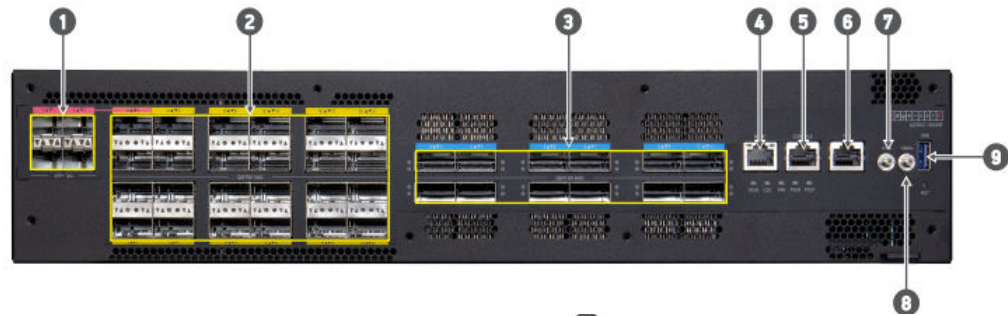
APPLICATIONS

- Top-of-Rack (ToR) or Leaf switch
- Data Center Interconnect (DCI)
- Metro Ethernet aggregation
- Broadband Network Gateway (BNG)
- Provider Edge (PE) router
- Spine switch

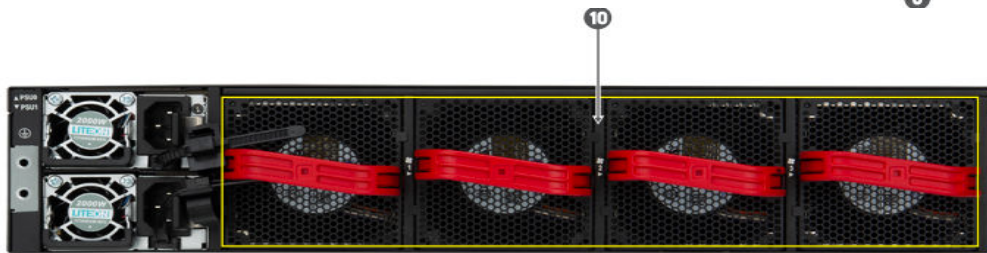
Software



Front View



Rear View



Description

1. 4 x 10G SFP+ combined with 100G ports 0 and 1*	6. 1 x RJ-45 ToD port
2. 24 x 100GbE QSFP28 (6.5 W) ports	7. 1 x SMB 1PPS input/output
3. 12 x 400GbE QSFP-DD (23 W) ports	8. 1 x SMB 10MHz input/output
4. 1 x RJ-45 management port	9. 1 x USB Type A
5. 1 x RJ-45 console management port	10. 3 + 1 redundant fans

*Note: The 10G SFP+ ports are grouped with 100G QSFP28 ports 0 and 1. Either SFP+ or QSFP28 ports may be used, but concurrent operation of both is not supported. By default QSFP28 ports are enabled.

Hardware Specifications

PORTS

Switch Ports

- 12 x 400GbE QSFP-DD ports
- 24 x 100GbE QSFP28 ports
- 4 x 10GbE SFP+ combo ports
- QSFP-DD: 400G / 4x100G / 8x50G / 8x25G / 8x10G breakout
- QSFP28: 1x100G or 1x40G modes
- SFP+: 1x10G (combo with QSFP28 port 0/1)

Management Ports:

- 1 x RJ-45 Console Port
- 1 x RJ-45 10/100/1000BASE-T Management Port
- 1 x USB 3.0 (storage)

Supported Transceivers and Cables:

- 10GBASE-SR, LR
- 40GBASE-SR4, LR4
- 100GBASE-SR4, CWDM4, LR4, ER4, ZR4
- 400GBASE-SR8, DR4, FR4, ZR, ZR+
- 40G/100G DAC, AOC; 400G DAC, AOC, AEC

Timing:

- 1 x RJ-45 ToD port
- 1 x SMB 1PPS input/output
- 1 x SMB 10MHz input/output
- SyncE, IEEE 1588v2 PTP

PSU

- 2 redundant, load-sharing, hot-swappable AC or -48VDC PSUs
- AC: 100-127 VAC (12A/1000W) or 200-240 VAC (10A/2000W)
- DC: -40 to -60 VDC, 50A / 2000W max.

SYSTEM AND PORT LEDs

- Port LEDs: Speed, Link/Activity
- Management Port LEDs: Link/Activity, Speed
- System LEDs: PSU0, PSU1, Diagnostic, Fans, Locator
- Reset button

REGULATORY: (PRELIMINARY)

Safety

- UL (CSA 22.2 No 62368-1 & UL 62368-1)
- CB (IEC/EN 62368-1)

Electromagnetic Compatibility

- CE Mark / UKCA
- EN 55032 / CISPR 32 Class A
- FCC Title 47, Part 15, Subpart B Class A
- EN 61000-3-2, EN 61000-3-3
- EN 55024, EN 55035, EN 300 386

Environmental

- RoHS 2.0 Compliant
- WEEE Directive 2002/96/EC
- Country of Origin: Taiwan (TAA compliant)

KEY COMPONENTS

- Switch Silicon: Broadcom BCM88851 Jericho2c+
- External TCAM: Broadcom BCM16000 OP2
- CPU: Intel® Xeon® D Ice Lake 8-Core 3.1 GHz
- Memory: 64 GB DDR4 SO-DIMM with ECC
- Storage: 480 GB NVMe SSD
- TPM: TPM 2.0
- BMC: AST2600 with OpenBMC
- Timing: SyncE, IEEE 1588v2 PTP

PERFORMANCE

- Switching Capacity: 14.4 (28.8) Tbps
- Packet Buffer Size: 8 GB (on-chip HBM)
- Jumbo Frames: up to 9416 Bytes

PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 440 x 649.2 x 87 mm (2RU)
- Weight: 20.5 kg with 2 PSUs and 4 fans
- Fans: Hot-swappable 3+1 redundant fans
- Operating Temperature: 0°C to 45°C (32°F – 113°F)
- Storage Temperature: -40°C to 70°C
- Operating Humidity: 5% to 85% (non-condensing)

POWER CONSUMPTION

- Typical: 421.5 W at 25°C (excluding transceivers)
- Power Budget: 1.5W (SFP+), 6.5W (QSFP28), 23W (QSFP-DD)

ExaDOS Specifications

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
- 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-phase 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 Information

Ordering Part Number	Description	Airflow	Region
EXA7200-36XK-A-AC-[Region]	EXA7200-36XK, 12x400G QSFP-DD (23W), 24x100G QSFP28 (6.5W), 4x10G SFP+ (1.5W, combo) ports; 1+1 Load-Sharing Redundant AC PSU, Broadcom Qumran-J2C+, 7.2Tbps + BCM16K OP2 TCAM; Intel Xeon® Processor D 8-Core, 3+1 Modular Fan tray, Front-to-Rear airflow, 1 pair of rack mount kit, ONIE Software Installer, 3 years Hardware Warranty, ExaNos perpetual license, all features included.	Front to back airflow	US/EU/UK/None
EXA7200-36XK-A-DC	EXA7200-36XK, 12x400G QSFP-DD (23W), 24x100G QSFP28 (6.5W), 4x10G SFP+ (1.5W, combo) ports; 1+1 Load-Sharing Redundant DC PSU, Broadcom Qumran-J2C+, 7.2Tbps + BCM16K OP2 TCAM; Intel Xeon® Processor D 8-Core, 3+1 Modular Fan tray, Front-to-Rear airflow, 1 pair of rack mount kit, ONIE Software Installer, 3 years Hardware Warranty, ExaNos perpetual license, all features included.	Back to front airflow	
EXA7200-M&S-1Y	1 Year System Maintenance and Support including Software updates and bugs fixes.		
EXA7200-M&S-3Y	2 Years System Maintenance and Support including Software updates and bugs fixes.		
EXA7200-M&S-5Y	5 Years System Maintenance and Support including Software updates and bugs fixes.		
EXA7200-36XK-A-PSU-AC	AC PSU for EXA7200-36XK		
EXA7200-36XK-A-PSU-DC	DC PSU for EXA7200-36XK		
EXA7200-36XK-A-FAN	Fan tray for EXA7200-36XK		

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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