



The EXA2400-74XK is a high performance IP/MPLS 25GbE aggregation router that consists of fixed 64 x 10G/25G SFP28, 8 x 100GE QSFP28 and 2 x 100G QSFP-DD (supporting high power optics, compatible with QSFP28 as well) network interface configuration with External BCM16K Lookup Engine enables the 2RU compact design to be deployed as an aggregation router or as peering/data center gateway.

EXA2400-74XK is engineered with the latest Broadcom StrataDNX™ Qumran2C silicon with an external lookup engine that target for use cases that requires full internet table with future ready 6M IPv4/6 prefixes, 25G pre-aggregation router, PE router or data center GW router. EXA2400-74XK is installed with ExaNOS carrier grade operating system.

## KEY FEATURES AND BENEFITS

- High performance 25GbE router for Telecom and Data Center applications
- Incorporates Broadcom StrataDNX™ Qumran2C Silicon
- Supports Front-to-Back Airflow SKU
- Hot-Swappable, Load-sharing, and 1+1 redundant DC-DC/AC-DC PSUs
- 4+1 Redundant, Hot-Swappable Fan Modules
- Embedded with Exaware's carrier-grade ExaNOS system.
- Best in class route insertion rate, hierarchical FIB and BGP-PIC for carrier class deployments.

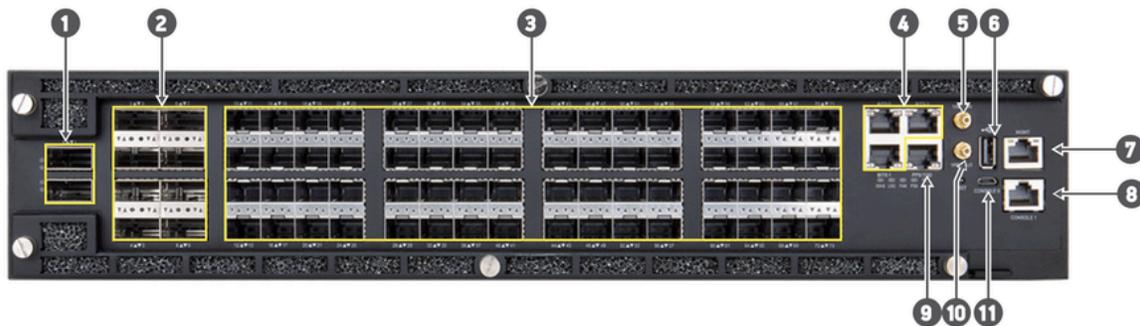
## APPLICATIONS

- Edge, PE or pre-aggregation router
- Standalone 25GbE aggregation router
- Full internet table use cases

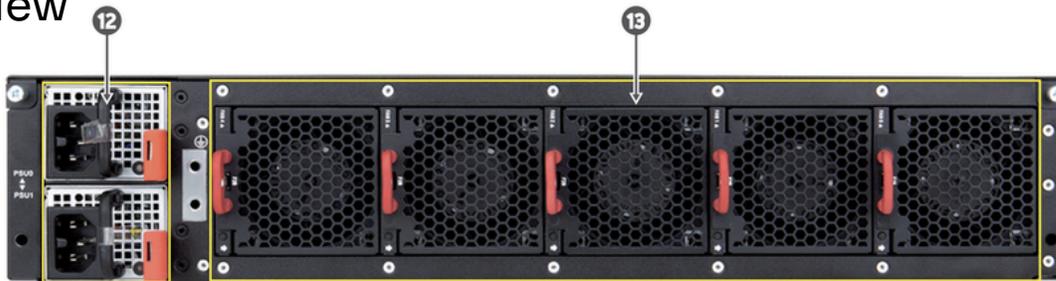
Software



Front View



Rear View



Description

1. 2 x 100G QSFP-DD ports	8. 1 x RJ-45 console port
2. 8 x 100G QSFP28 ports	9. 1 x PPS/TOD port
3. 64 x 25GE SFP28 ports	10. 1 x SMB1PPS out
4. 3 x RJ-45 BITS ports	11. 1 x Micro USB console port
5. 1 x SMB10MHz in	12. 1+1 DC-DC/AC-DC PSUs redundant
6. 1 x USB Type A	13. 4 +1 redundant fans
7. 1 x RJ-45 OOB management port	

## PORTS

- Switch Ports
  - 64 x 10G/25G SFP28
  - 8 x 100G QSFP28
  - 2 x 100G QSFP-DD (support high power 100G optics only)
  - Support 1GE, 10G, 40GE and 100GE modes
  - Support standard 1GE, 10GE, 25GE, 50GE configurations by using DAC breakout cables into 2x50GE, 4x25GE, or 4x10GE
- Management Ports on Front Panel:
  - 1 x RJ-45 Console Port
  - 1 x RJ-45 10/100/1000BASE-T Management Port
  - 1 x USB (storage)
  - 1 x Micro USB Console Port
- Supported Transceivers and Cables:
  - 1000BASE-EX/ZX
  - 10GBASE-SR/LR/ER/ZR
  - 100GBASE-SR4/LR4/ER4/ZR4/PSM4-2
- Timing:
  - 3 x RJ45 (T12 or E12 input/output)
  - 1 x RJ45 ToD/PPS
  - 1 x SMB (1PPS out)
  - 1 x SMB (10MHz input)

## KEY COMPONENTS

- Switch Silicon: Broadcom BCM88820 Qumran-2C
- External TCAM: Broadcom BCM16K
- 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

## 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: 692 W
- Typical: 201 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
  - NEBS Level 3\*
  - 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:
EXA2400-74XK-A-AC	Router System, Software included, AC Power Supplies
EXA2400-74XK-A-DC	Router System, Software included, DC Power Supplies
EXA2400-74XK-A-FAN	Spare Fan
EXA2400-74XK-A-PSU-AC	Spare AC Power Supply
EXA2400-74XK-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](http://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](http://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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