

EXA2400-72XK



The Exaware's EXA2400-72XK open aggregation router, is a multi-function, disaggregated white box aggregation routing platform with an external TCAM. It is equipped with Broadcom's Qumran2c merchant silicon chip and an Intel Skylake processor featuring 64x25G and 8x100G high speed ports with a switching capacity of up to 2.4Tbps. The EXA2400-72XK can be deployed at C-RAN hubs to provide 5G fronthaul transport aggregation or be positioned at the backhaul for aggregating BBU pooling. It can also be programmed to be a Broadband Network Gateway (BNG) to enable the next generation broadband network. Equipped with high port density, Class C timing and fully supporting SyncE and IEEE 1588v2, our EXA2400-72XK is capable of fulfilling the role of any type of network aggregation. Specializing in 5G Time Sensitive Networking applications, the EXA2400-72XK complies to the IEEE 802.1CM and can act as an Edge Grandmaster (GM) clock. Our open aggregation router is compatible with high accuracy fronthaul synchronization and timing requirements (ITU-T G.8273.2 T-BC, Class C) to ensure error free operation of 5G and cooperative radio techniques.

KEY FEATURES AND BENEFITS

- High density, 64x25G ports with additional 8x100G ports
- 2.4Tbps switching capacity with an 8-Core, 1.9GHz processor
- 4GB Packet buffer
- Hardware supports full SyncE and IEEE 1588v2
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing accuracy
- Internal GNSS receiver for master clock implementations
- Rich timing interfaces: GNSS, 10MHz, 1PPS and ToD
- Highly reliable, non-blocking switching capacity
- Enable Time Sensitive Networking for 5G compatibility
- Integrate open NOS applications for highly reliable composable networks
- Futureproof to meet evolving requirements of 5G with ultra-low latency, high precision frequency and phase timing synchronization support
- Quick and easy installation onto standard 19" server racks
- Streamline maintenance with redundant and hot swappable power and fan modules

SOFTWARE



FRONT VIEW



BACK VIEW



PORTS

- 8 x 40/100G QSFP28 ports
- 64 x 1/10/25G SFP28 ports
- 2 x 10G SFP+ management ports
- 1 x RJ45 serial console port
- 1 x Micro USB serial console port
- 1 x 100/1000M RJ45 management port
- 1 x USB 3.0 Type-A port

PHYSICAL

- Processor
 - Intel Skylake-D 8-Core @ 1.9GHz
- Memory
 - 32GB DDR4 (Up to 64GB)
- Storage
 - 128GB SSD
- BMC
 - AST2400
- ASIC
 - Broadcom Qumran2c BCM88820
 - Broadcom OP2 BCM16K (Premium)
- Timing Interfaces
 - 1 x GNSS input SMA
 - 1 x 10MHz input/output SMB
 - 1 x 1PPS input/output SMB
 - 1 x ToD input/output RJ45
- Timing Support
 - Stratum 3E OCXO
 - ITU-T Synchronous Ethernet (SyncE)
 - IEEE 1588v2 (Default Profile, G.8265.1 G8275.1, G.8275.2 profiles), T-TC, T-BC/OC, T-GM
 - Time Sensitive Networking (TSN)
- Chassis (W x D x H)
 - 2 RU, 436 x 609.6 x 87.7 mm or 17.17" x 24" x 3.45"
 - Weight: 15.19kg or 33.49lb
- Redundancy
 - Hot-swappable, 1+1 redundant PSU
 - Hot-swappable, 3+1 redundant Fans

ENVIRONMENTAL

- Power Specs.
 - AC input: 100 to 240V, 12A
 - DC input: -40 to -75V, 40A
 - Typical power: 328 Watts (no transceiver)
- Max. Operating Specs.
 - Operating temperature: 0°C to 45°C (32°F to 113°F)
 - Operating humidity: 5% to 85% (RH), non-condensing
- Max. Non-Operating Specs.
 - Storage temperature: -40°C to 70°C (-40°F to 158°F)
 - Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

- Switching Capacity
 - 2.4Tbps
- Deep Buffer
 - 4GB

REGULATORY COMPLIANCE

- Safety
 - UL 62368-1
 - IEC 60950-1
 - IEC 62368-1
 - BSMI
- Environment
 - WEEE
 - RoHS
 - ETSI 300 019
 - ETSI 300 132-2
 - NEBS GR-63
- EMC
 - FCC Part 15, Subpart B, Class A
 - ICES-003, Class A
 - EN 55032, Class A
 - EN 55024
 - EN 55035
 - EN 62479
 - EN 50663
 - EN 300 386
 - EN 301 489
 - EN 303 413
 - BSMI
 - MTCTE
 - VCCI CISPR 32, Class A NEBS
 - GR-1089, GR-3108

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:

EXA2400-72XK-A-AC	Router System with Software and AC Power Supplies
EXA2400-72XK-A-DC	Router System with Software and DC Power Supplies
EXA2400-72XK-A-NOS	Router System Software
EXA2400-72XK-A-FAN	Spare Fan
EXA2400-72XK-A-PSU-AC	Spare AC Power Supply
EXA2400-72XK-A-PSU-DC	Spare DC Power Supply

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