



DATASHEET

EXA300-26X

The Exaware's EXA300-26X is an open design cell site gateway platform that provides a combination of 1/10 Gbps, 25 Gbps, and 100 Gbps interfaces, utilizing merchant silicon and an x86 processor with optimized performance for service provider access and aggregation networks. The EXA300-26X is a hardened design, able to operate at a wide operational temperature range from -40°C to 65°C, and with redundant/hot swappable power modules and redundant 4+1 fans that provide high availability and hassle-free maintenance for mission-critical applications, making the hardware an ideal choice for current LTE and emerging 5G mobile backhaul network solutions. The EXA300-26X builds in industry-leading network timing and synchronization functions with GNSS antenna interface that makes it an ideal solution for current LTE and emerging 5G mobile backhaul network. The EXA300-26X is installed with ONIE (Open Network Install Environment) to provide freedom of choice for the preferred NOS (Network Operating System) integration with user applications.

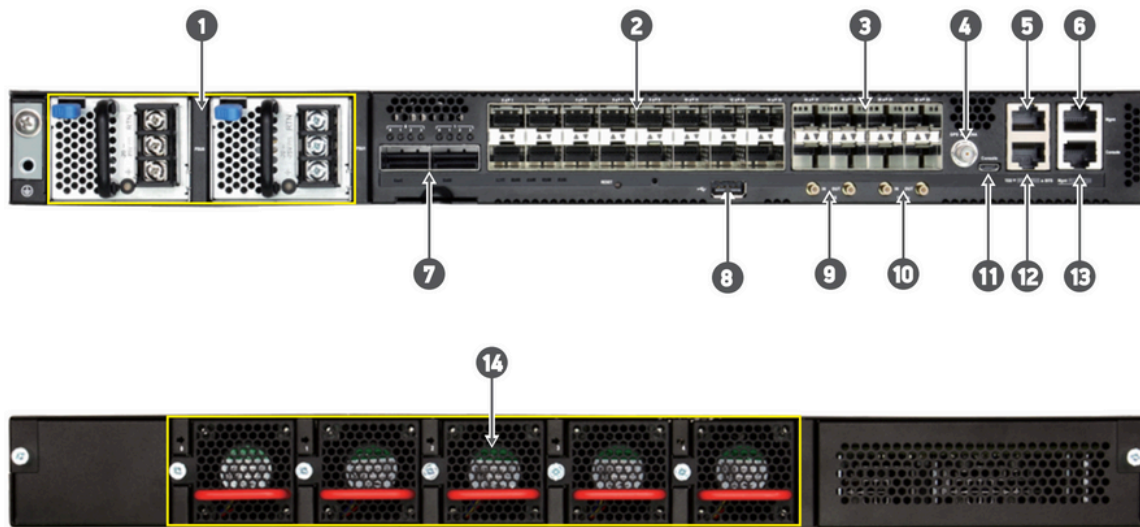
KEY FEATURES AND BENEFITS

- Open design cell site gateway for mobile backhaul networks
- Conforms to OCP Cell Site Gateway Specifications
- 16 x 10G SFP+ , 8 x 25G SFP28 and 2 x 100G QSFP28 fixed ports.
- Support IEEE1588v2 and SyncE functions in hardware.
- Rack mountable in standard 19" racks.
- Supports front-to-back airflow SKU.
- All ports and PSUs on front; fan modules on rear
- Hot-swappable, load sharing, redundant AC/48VDC PSUs.
- Hot swappable 4+1 redundant fan modules.
- Management: Ethernet and console RJ-45 ports; USB storage port.
- Pre-loaded with Open Network Install Environment (ONIE).
- Compatible with Open Network Linux (ONL).

SOFTWARE



INTERFACES



Description

1. Power Supply	8. USB storage port
2. 16 x 10G SFP+ ports	9. 1pps I/O
3. 8 x 25G SFP28 ports	10. 10MHz I/O
4. GNSS antenna input	11. Micro USB console port
5. BITS port	12. TOD RJ-45 port
6. 1 x RJ-45 management port	13. 1 x RJ-45 console port
7. 2 x 100G QSFP28 ports	14. Hot-swappable 4 + 1 redundant fans

PORTS

- Switch Ports
 - 16 x SFP+ (each supporting 10 GbE or 1 GbE)
 - 8 x SFP28 (each supporting 10 GbE or 25 GbE)
 - 2 x 100G QSFP28 (each supporting 1 x 40/100 GbE or 4 x 10/25 GbE or 2 x 50 GbE)
- Management Ports on Front Panel:
 - 1 x RJ-45 serial console
 - 1 x RJ-45 1000BASE-T management Ethernet port (MGMT)
 - 1 x USB (storage)
- Clocking and Timing ports
 - Pulse-per-Second (PPS) input and output
 - Time-of-Day (TOD) input and output 10MHZ input and output
 - Building-Integrated Timing System port (BITS)
- GNSS Antenna: 1 x GNSS antenna Input port

KEY COMPONENTS

- Switch Silicon: Broadcom BCM88470 Qumran-AX
- CPU Modules:

Processor: Intel® Pentium® D1519 1.5G 4-Core

Memory: DDR4 SO-DIMM 2x 8GB SDRAM with ECC support

PERFORMANCE

- 300 Gbps bidirectional switching capacity
- 300 Mpps packet processing rate
- Storage: 128G SSD

PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 438.4 x 299.8 x 43.3 mm (17.25 x 11.80 x 1.7 in)
- Weight: 6.15 kg (NW), 8.9 kg (GW)
- Fans: Hot-swappable 4+1 redundant fans
- Operating Temperature: -40°C to 65°C (-40°F to 149°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

PSU

- DC Input: -36V - -72V, 14-7 A, per PS
- AC Input: 100V-240V, 6-3 A, per PS
- Power Capacity: 400 W (Maximum)

REGULATORY COMPLIANCE

- Safety Compatibility
 - UL (CAN/CSA 22.2 No 60950-1 & UL60950-1)
 - IEC 62368-1
 - CB (IEC/EN60950-1)
 - BSMI (CNS14336-1)
- Electromagnetic Compatibility
 - CE Mark EN55032 Class A
 - EN55024 (Immunity) for Information Technology Equipment
 - EN 61000-3-3
 - EN 61000-3-2
 - FCC Title 47, Part 15, Subpart B Class A
 - VCCI Class A
 - CNS 13438 (BSMI)

ENVIRONMENTAL

- NEBS Level 3 compliance (Pre-test)*
- 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:

EXA300-26X-A-AC	Router System with Software and AC Power Supplies
EXA300-26X-A-DC	Router System with Software and DC Power Supplies
EXA300-26X-A-NOS	Router System Software
EXA300-26X-A-FAN	Spare Fan
EXA300-26X-A-PSU-AC	Spare AC Power Supply
EXA300-26X-A-PSU-DC	Spare DC Power Supply

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