

PRODUCT OVERVIEW



LN-XS-X216Z8

Highlights

- ▶ UEC-Ready Weighted Congestion-Aware Dynamic Load Balancing for Reducing Tail Latency
- ▶ UEC-Ready Programmable Congestion Measurement and Signaling to Facilitate Dynamic Load Balancing and Fast Failure Detection and Recovery
- ▶ The 16 OSFP-800 Ports can Breakout to 2 x 400G, 4 x 200G, or 8 x 100G
- ▶ Supports 100 Gbps PAM4 LR SerDes with a Retimer-Less Design
- ▶ Supports 12.8Tbps Full-Duplex Throughput
- ▶ Supports Port-to-Power Airflow Direction
- ▶ All Ports on Front; PSUs and Fans Accessible from Rear
- ▶ Hot-Swappable, Load-Sharing, Redundant AC Power
- ▶ 5+1 Redundant, Hot-Swappable Fan Modules



HARDWARE SPECIFICATIONS

Ports

Switch Ports	16xOSFP-800 switch ports, each supports 2x400GbE, 4x200GbE, and 8x100GbE via breakout cables
	1 x RJ-45 serial console
Management Ports on Port Side	1 x RJ-45 1G BASE-T management
	1 x USB Type A storage

Performance

Chipset	X2 xSight Labs
Switching Capacity	12.8 Tbps (full duplex)
Jumbo frames	Support up to 9216 Bytes
Packet Buffer Size	64 MB integrated packet buffer

Physical and Environmental

Dimensions (WxDxH)	442x509x44 mm
Weight	10.005 kg
Fans	5+1 hot-swappable redundant fans
Operating Temperature	0°C – 40°C
Storage Temperature	-40°C – 70°C
Operating Humidity	0% – 95% non-condensing
Operating Altitude	0 – 10,000 feet

Power

PSUs	2 redundant, load-sharing, hot-swappable AC PSUs
AC Input Voltage	90 to 240 VAC at 50-60 Hz
Power Consumption	< 200W

Approvals

Certificate	EMI, FCC, CE, VCCI, UL/ CUL, CB, RoHS
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SONIC OS SOFTWARE FEATURES

Layer 2/3 Feature list

BGP / BGP MP	BGP/Neighbor-down fib-accelerate
BGP-EVPN support (type 5), (related HLD Fpmsyncd,Vxlanmgr,template)	ECMP
LAG	ACL permit/deny, IPv6 ACL
LLDP	DHCP
VLAN	CoPP
IPv6	VLUN Trunk
FRR	Priority Flow Control
Asymmetric PFC	PFC Watermark
DHCP Relay Agent	Tunnel Decap
LACP Fallback	MTU Setting
Vlan Trunk	Static Port breakout
Dynamic ACL Upgrade	MAC Aging
L3 RIF counter support	Configurable drop counters

Monitoring

SNMP	Syslog
EverFlow	OOM
TCPDump	Critical Recourse Monitor
Dtel	Mirroring
Egress mirroring	ACL action support check via SAI
Streaming Telemetry	Everflow enhancement
sFlow	HW resource monitor

QoS

RDMA	ECN
PFC WD	WRED
COS	Watermark

Virtualization

L3 VxLAN	VRF
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SONIC OS SOFTWARE FEATURES

System

NTP	ONIE Install
CLI	TACACS+
ConfigDB	SONiC to SONiC upgrade
Multiple Images support	gRPC
Sensor transceiver monitoring	LLDP extended MIB: lldpremtable, lldploctable, lldpremanaddrtable, lldplocmanaddrtable, lldploctable, lldpLocalSystemData
Warm Reboot	Incremental Config (IP, LAG, Port shut/unshut)
Routing Stack Graceful Restart	Mgmt VRF
Management Framework	Multi-DB optimization-Part 1
Sub-port support	

ORDERING INFORMATION

Model	Description
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LN-XS-X216Z8	16xOSFP-800 switch ports, 5+1 hot-swappable redundant fans, 2 redundant PSUs
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Model includes a 1-year HW Warranty.