

PRODUCT OVERVIEW



LN-4332-SERIES

Highlights

- ▶ 32 x 100G QSFP28 or 400G QSFP-DD, 2 x 10G SFP+
- ▶ Switching Capacity up to 25.64 Tbps
- ▶ Compact 1RU Standard, 19-inch Rack Mountable Design
- ▶ 2 (1+1 redundant) Redundant Hot-swappable PSU
- ▶ FLASH 64G
- ▶ RAM 16G
- ▶ 6 (5+1 Redundant) Hot-swappable Fan
- ▶ Cut-through with Ultra-low-latency
- ▶ Marvell ROS Support
- ▶ SONiC OS Support



HARDWARE SPECIFICATIONS

Switching Performance

Switch ASIC	98CX8580 (LN-4332-Z4), 98CX8522 (LN-4332-Z1)
Ports	32 x 100G QSFP28 or 400G QSFP-DD, 2 x 10G SFP+
Capacity	25.64 Tbps (LN-4332-Z4), 6.4 Tbps (LN-4332-Z1)
Packet Buffer	24MB

Hardware

CPU	Marvell OcteonTX2 CN9130
RAM	16G
FLASH	64G

Management Ports

Management port	1x RJ45 10/100/1000Base-T Ethernet ports
Console port	1x RJ45 RS-232 console serial port
USB	1x USB 2.0 Type A female

Physical and Environmental

Dimensions	17.32" (W) x 22.5" (D) x 1.72" (H)
Weight	10kgs
Fan	5+1
PSU	2x1600W hotswap AFI/AFO
Operating Temperature	0°C to 40°C
Operating Humidity	10% to 95% (non-condensing)

MARVELL ROS SOFTWARE FEATURES

Basic Functions

Port Speed/duplex management	VLANS (Protocol / MAC / IPv4 based)
Port Auto management	GVRP/GARP
VCT Diagnostics Port features	Multicast/CPE(Triple Play) VLAN
Jumbo Frames (FE and GE)	QinQ
LAG / LACP	Flow Control 802.3x
Green Ethernet	Back Pressure
STP/RSTP/MSTP etc.	Loopback and UDLD (Unidirectional link) detection
Optical Transceiver Analysis	

Quality of Service

Basic / Advanced QOS (Port/Flow)	CoS/QoS
Ingress/egress Rate Limiting/Shaping	SP/WRR Queue settings
L2/L3 CoS->Queue mapping	Per-Flow Actions

Security

Access Control and logging	Radius Authentication/Accounting/802.1x
Time based ACL	TACACS+ Client and Accounting
MAC/Port based security	Syslog
Ace priority	DHCP Snooping
802.1x enhanced (all variants)	ARP inspection
802.1x MAC/Port/Web/Time based	IP Source Guard
Secure Control Technology (protect CPU)	DoS Attack prevention

Monitoring

Mirroring SPAN/RSPAN	Environmental PS/RPS, FAN, Temperature
RMON/SMON	SFLOW v5
SNMP v1/2/3 with MIBs	Counters with History

Multicast

IGMP Snooping v1/2/3	*PIM-SM (optional)
MLD Snooping v1/2	IGMP/MLD Proxy
MLD Querier	Ports, Flows, CP
Unregistered Mcast	

MARVELL ROS SOFTWARE FEATURES

Management

OOB & serial Console support	DNS, DHCP, SNTP, LLDP-MED, UpnP
CLI/SNMP management (IPv4,IPv6) over Telnet or SSH	LLDP 802.1ab + LLDP MED
USB/SD flash storage support	WEB-GUI interface for basic management
DHCP based Self-Configuration/Update	Time based scheduled features
Multi-File Configs, Dual-Firmware	*Detailed REST compatible API (Optional)
RMON, Syslog, Radius, TACACS+	

*IP Routing (Optional)

L3 DHCP Relay	IP SLA
Proxy ARP for IP Routing	Loopback IP interface (Source Address Selection)
OSPF / RIP	Directed Broadcast
Equal Cost Multiple Path (ECMP)	UDP Relay
VRRP	IPv6 static unicast routing

*Stacking (Optional)

Optional Stacking up to 8(16) units using uplinks	Real cross-unit features, not just Management
Stand-alone and Stack-mode operation	Stack Master Election process
Firmware Version Control	Stack Backup capabilities
Unit joining or leaving the stack	Stacking Fast Failover
Stacking LAG	

*Optional Features for ROS

Ring protection	VxLAN
WEB-GUI with flexible configuration options	Radius COA
PTP	BGP



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, lldploctmanaddrtable, 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

SKU	Model	Description
000087	LN-4332-Z1	32x100, Dual Hot Pluggable PSU, Hot Pluggable FANS, 16GB RAM, 64GB eMMC
000088	LN-4332-Z4	32x400, Dual Hot Pluggable PSU, Hot Pluggable FANS, 16GB DDR4, 64 eMMC, ROS
000089	LN-4332-Z4	32x400, Dual Hot pluggable PSU, Hot Pluggable FANS, 16GB DDR4, 64 eMMC, SONiC

Models include a 3-year HW Warranty.