

PRODUCT OVERVIEW



LN-4864Z8T

Highlights

- ▶ 64 x 800GbE-OSFP Ports
- ▶ Marvell Teralynx 10, Phy-less
- ▶ 16GB DDR4 ECC SODIMM
- ▶ M.2 256G NVMe SSD
- ▶ 3+1 Fans
- ▶ SONiC OS
- ▶ Manufactured in Taiwan



HARDWARE SPECIFICATIONS

Ports

Switch Ports	64 x 800GbE-OSFP
	1 x RJ-45 serial console
Management Ports on Port Side	1 x RJ-45 OOB Port
	1 x USB3.0 type-A (backward compatible with USB2.0)

Performance

Switch SoC / PHY	Marvell Teralynx 10, Phy-less
CPU	Intel 4 cores Denverton C3558
BMC	Aspeed AST2520 (Optional)
FPGA/CPLD	1x Lattice LCMXO3LF-2100C-5BG324C
	2x Lattice LCMXO3LF-2100C-5BG256C
System Memory	16GB DDR4 ECC SODIMM
	M.2 256G NVMe SSD

Physical and Environmental

Cooling	Removal FAN module 80cm x 80cm: 3+1
PCB	430mm x 363mm x 5.65mm, 36 layers Hybrid EM-892K + EM-370Z
Chassis Size (W x L x H)	440 x 640 x 88 mm
Power Supply	1+1 AC-3000W CRPS
Operation Specification	0°C to +40°C, 0m to 3000m Altitude, 10% to 90% Humidity
Origin	Manufactured in Taiwan



SONIC OS SOFTWARE FEATURES

L1

Port statistics	Port Speed
Autonegotiation	PRBS

L2

VLAN (802.1Q)	MLAG / MC-LAG
FDB	LACP (802.3ad)
MAC Learning	Jumbo Frames
LLDP	

L3

IPv4 Routing	IPv6 Routing
Static Routing	ECMP
WCMP	BGP
BGPv6	BGP EVPN
IS-IS	VRF
UDF	BFD
PBR	VRRP

Interfaces

SVI	Port Channel
L3 Sub-interface	

Overlay

VXLAN	EVPN-VXLAN
Distributed Routing	VTEP

Fabric

Graceful Restart

QoS

QoS Queues	ECN
PFC	WRED
TC to DSCP mapping	Buffer Management
Ports and CPU queues statistics	Queue watermark support
Policer	

Hash

Support 7 tuples of packet outer header (IPv4 and IPv6)

SONIC OS SOFTWARE FEATURES

AI/HPC

RoCEv2	PFC Watchdog
Adaptive Routing (ARS)	

Multicast

IGMP Snooping	PIM (SM/DM)
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Security

BUM Storm Control	VLAN Flood Control
ACL (L2/L3/L4)	CoPP

Telemetry

SNMP	gNMI / gRPC
sFlow	Syslog

Management

CLI	REST API
YANG	ZTP
Config DB	SPAN
ERSPAN-II	

HA

ISSU	Warm reboot
Fast reboot	

Hardware

Buffer tuning	Dynamic Port breakout
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ORDERING INFORMATION

Model	Description
LN-4864Z8T	64 x 800GbE-OSFP Ports

Model includes a 3-year HW Warranty

