



DATA CENTER NETWORKING

DATA CENTER SWITCH

SN-4864Z8T

L3, 64x800 dual hot pluggable PSU, hot pluggable FANS



HIGHLIGHTS

- IPv4 Routing IPv6 Routing
- High-density switching for leaf, spine, and aggregation roles
- High-speed fiber interfaces across supported configurations
- Advanced Layer 3 routing and data-center network services
- Redundant power and field-serviceable cooling options where specified
- Customer-specific hardware and software integration support

4864Z8T

MODEL

DATA CENTER NETWORKING

PLATFORM

CUSTOM CONFIGURATION

AVAILABLE



PRODUCT SPECIFICATIONS

SN-4864Z8T is a data center switch configured for L3, 64x800 dual hot pluggable PSU, hot pluggable FANS.

Product	SN-4864Z8T
Platform	Data Center Switch
Application	L3, 64x800 dual hot pluggable PSU, hot pluggable FANS
Source specification	Corresponding technical product series datasheet

Technical Characteristics

Characteristic		Specification
Operating Humidity	10% to 90% Humidity	

The product configuration and applicable interface, power, cooling, and software options are defined by the selected model and project requirements.

NETWORK FEATURES

Quality of Service

Traffic classification and prioritization	Strict priority and weighted scheduling
Rate limiting, traffic shaping, and policing	Policy maps and class-based traffic actions
QoS based on IP, MAC, VLAN, and protocol criteria	

Security

RADIUS and TACACS+ authentication	Port security and role-based access control
DHCP snooping and IP source protection	Access-control lists and management ACLs
DoS protection, secure copy, SSH, and SSL	

Layer 2

802.1Q VLANs, QinQ, and private VLAN services	STP, RSTP, and MSTP loop prevention
Link aggregation and LACP	Port mirroring, isolation, and loopback detection
LLDP and LLDP-MED neighbor discovery	

Layer 3

IPv4 and IPv6 dual-stack operation	Static routing and inter-VLAN routing
Policy-based routing and route maps	DHCP server, relay, and client services
OSPF and RIP capabilities on supported configurations	

Multicast

IGMP and MLD snooping	PIM multicast routing on supported configurations
Multicast VLAN registration	Traffic containment and multicast policy control

High Availability

Redundant network protocols and equal-cost multipath	Virtual router redundancy
Storm control for broadcast, multicast, and unicast traffic	Stacking or redundant chassis operation where supported

MANAGEMENT & COMPLIANCE

Management

Web-based graphical interface	Industry-standard command-line interface
SSH, Telnet, SNMP, and syslog integration	Controller-based or standalone operation where supported
USB, console, and out-of-band management options	

Monitoring and Diagnostics

System event, alarm, and operating logs	Port and traffic statistics
Temperature, power-supply, and fan monitoring where applicable	Ping, traceroute, and cable diagnostics
Digital diagnostic monitoring on supported optical interfaces	

Standards and Compliance

IEEE 802.1 and 802.3 Ethernet standards	RoHS environmental compliance
CE and FCC regulatory conformity where applicable	Energy-efficient Ethernet on supported configurations
PoE and PoE+ standards on power-enabled models	

Source-Specified Standards

Performance
1x Lattice LCMXO3LF-2100C-5BG324C
2x Lattice LCMXO3LF-2100C-5BG256C
VLAN (802.1Q) MLAG / MC-LAG
FDB LACP (802.3ad)
L3 Sub-interface

DETAILED TECHNICAL SPECIFICATIONS

TECHNICAL DATA | 1 OF 4

SN-4864Z8T

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

DETAILED TECHNICAL SPECIFICATIONS

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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	
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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)

DETAILED TECHNICAL SPECIFICATIONS

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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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DETAILED TECHNICAL SPECIFICATIONS

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SN-4864Z8T

ORDERING INFORMATION

SKU	Model	Description
000251	SN-4864Z8T	64 x 800GbE-OSFP Ports

Model includes a 3-year HW Warranty



SUPPORT & CUSTOM ENGINEERING

Service Area	SIDERA Intelligent Systems Capability
Technical support	Pre-sales, deployment, configuration, and operational assistance
Product customization	Customer-specific hardware, software, interface, and mechanical modifications
Project engineering	Application review, design adaptation, validation, and implementation support
Lifecycle support	Documentation, troubleshooting, maintenance guidance, and upgrade planning

TECHNICAL SUPPORT & CUSTOM ENGINEERING

SIDERA Intelligent Systems provides comprehensive technical support and customer-specific product customization, tailored to individual operational and project requirements.

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Technical specifications are subject to change without notice.