



DATA CENTER NETWORKING

DATA CENTER SWITCH

SN-4832Z4T

L3, 32x400 dual hot pluggable PSU, hot pluggable FANS



HIGHLIGHTS

- Fan Unit 6 (5+1 redundant) Hot swappable
- 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

4832Z4T

MODEL

DATA CENTER NETWORKING

PLATFORM

CUSTOM CONFIGURATION

AVAILABLE

PRODUCT SPECIFICATIONS

SN-4832Z4T is a data center switch configured for L3, 32x400 dual hot pluggable PSU, hot pluggable FANS.

Product	SN-4832Z4T
Platform	Data Center Switch
Application	L3, 32x400 dual hot pluggable PSU, hot pluggable FANS
Source specification	Corresponding technical product series datasheet

Technical Characteristics

Characteristic	Specification
Weight	Net Weight (kg) 9.6 Kgs
Operating Temperature	Operating Temperature 0°C ~ 45°C
Relative Humidity	Relative Humidity 5%-95% (non-condensing)
MTBF	Predicted MTBF 350000 hours

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

Certification AS/NZS CISPR32, EN 61000-3-2, EN 61000-3-3, FCC
VLAN (802.1Q) MLAG / MC-LAG
FDB LACP (802.3ad)
L3 Sub-interface

DETAILED TECHNICAL SPECIFICATIONS

TECHNICAL DATA | 1 OF 4

SN-4832Z4T

HARDWARE SPECIFICATIONS

Switching Hardware

Switching Ports 400G QSFP-DD	32
Switching Chip	Marvell Teralynx7 IVM77700
CPU	Intel Denverton COMe Type 7 Module
Capacity	12.8 Tbps
Memory	32GB with ECC support
VLANs Support	4096
Maximum Jumbo Frame Size	9,216 bytes

Management Port

USB	1
Serial Console	1
Management Port	1

Physical and Environmental

Power Supply Units	AC CRPS 1300W, Hot-Swappable, 1+1 Redundancy
Power Consumption	≤1200 Watts
Fan Unit	6 (5+1 redundant) Hot swappable
Form Factor and Dimension	445 x 515 x 44mm (WxDxH)
Net Weight (kg)	9.6 Kgs
Operating Temperature	0 ° C ~ 45 ° C
Storage Temperature	-40 ° C ~ 70 ° C
Relative Humidity	5%-95% (non-condensing)
Operating Altitude	3000m max
Predicted MTBF	350000 hours

Safety

Safety	UL (CSA 22.2 No 62368-1 & UL 62368-1)
Certification	

EMC

EMC	EN 55032 Class A
Certification	AS/NZS CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Class A, VCCI-CISPR32, ICES-003

DETAILED TECHNICAL SPECIFICATIONS

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SONIC OS SOFTWARE FEATURES

L1

Port statistics	Port Speed
Autonegotiation	

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
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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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ORDERING INFORMATION

Model	Description
SN-4832Z4T	32x QSFP56-DD ports



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.