

DATA CENTER NETWORKING

DATA CENTER SWITCH

SN-XS-X216Z8

L3, 16x800 dual hot pluggable PSU, hot pluggable FANS



HIGHLIGHTS

- Routing Stack Graceful Restart Mgmt VRF
- 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

XS-X216Z8

MODEL

DATA CENTER NETWORKING

PLATFORM

CUSTOM CONFIGURATION

AVAILABLE

PRODUCT SPECIFICATIONS

SN-XS-X216Z8 is a data center switch configured for L3, 16x800 dual hot pluggable PSU, hot pluggable FANS.

Product	SN-XS-X216Z8
Platform	Data Center Switch
Application	L3, 16x800 dual hot pluggable PSU, hot pluggable FANS
Source specification	Corresponding technical product series datasheet

Technical Characteristics

Characteristic	Specification
Congestion Control	UEC-Ready Weighted Congestion-Aware Dynamic
Switching Capacity	Switching Capacity 12.8 Tbps (full duplex)
Packet Buffer	Packet Buffer Size 64 MB integrated packet buffer
Dimensions	Dimensions (WxDxH) 442x509x44 mm
Weight	Weight 10.005 kg
Operating Temperature	Operating Temperature 0°C - 40°C
Operating Humidity	Operating Humidity 0% - 95% non-condensing

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
Certificate EMI, FCC, CE, VCCI, UL/ CUL, CB, RoHS
sFlow HW resource monitor

DETAILED TECHNICAL SPECIFICATIONS

TECHNICAL DATA | 1 OF 4

SN-XS-X216Z8

HARDWARE SPECIFICATIONS

Ports

Switch Ports	16xOSFP-800 switch ports, each supports 2x400GbE, 4x200GbE, and 8x100GbE via breakout cables
Management Ports on Port Side	1 x RJ-45 serial console
	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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DETAILED TECHNICAL SPECIFICATIONS

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SN-XS-X216Z8

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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DETAILED TECHNICAL SPECIFICATIONS

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SN-XS-X216Z8

System

NTP	ONIE Install
CLI	TACACS+
ConfigDB	SONiC to SONiC upgrade
Multiple Images support	gRPC
Sensor transceiver monitoring	LLDP extended MIB: Ildpremtable, Ildploctportable, Ildpremanaddrtable, Ildploctmanaddrtable, Ildploctportable, IldpLocalSystemData
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	



DETAILED TECHNICAL SPECIFICATIONS

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SN-XS-X216Z8

ORDERING INFORMATION

Model	Description
SN-XS-X216Z8	16xOSFP-800 switch ports, 5+1 hot-swappable redundant fans, 2 redundant PSUs

Model includes a 1-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.