CAMPUS & ACCESS

CAMPUS AND ACCESS SWITCH

SN-2324GP-4XGF-RPS

L2, 24*1G+4*10G, PoE+ 400w, 2PSU, USB+OOB+Console, ROS Firmware

HIGHLIGHTS

- Seamless Stack Management: Control Up to 8
- Advanced QinQ Stacking for Multi-Tenant Networks
- All Models Can Support Layer 3 if Necessary
- PoE Budget Can Be Adjusted According to Client
- Supports PoE+ or PoE++ Ports
- SN-2324GP-4XGF 24 - 4 PoE+ 400W - - -
- Enterprise access switching with high-speed fiber uplinks
- Advanced Layer 2 and Layer 3 network services
- Secure management, policy enforcement, and traffic control
- Flexible PoE, power, and cooling options across supported models

2324GP-4XGF-RPS	CAMPUS & ACCESS	CUSTOM CONFIGURATION
MODEL	PLATFORM	AVAILABLE

SIDERA INTELLIGENT SYSTEMS

PRODUCT SPECIFICATIONS

SN-2324GP-4XGF-RPS is a campus and access switch configured for L2, 24*1G+4*10G, PoE+ 400w, 2PSU, USB+OOB+Console, ROS Firmware.

Product	SN-2324GP-4XGF-RPS
Platform	Campus and Access Switch
Application	L2, 24*1G+4*10G, PoE+ 400w, 2PSU, USB+OOB+Console, ROS Firmware
Source specification	Corresponding technical product series datasheet

Technical Characteristics

Characteristic	Specification
MTBF	MTBF 100,000h
Operating Temperature	Operating temperature -5°C (23°F) to 65°C (149°F)
Operating Humidity	Humidity 5% ~ 95% non-condensing
Switching Capacity	Switching capacity 128 Gbps
Forwarding Rate	Forwarding rate 95 Mpps
MAC Address Table	MAC address table Max 16k
Packet Buffer	Packet buffer size 3 MB

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

Optimized Voice VLAN with Intelligent QoS for Lag-
Free VoIP Performance
Quality of Service
Flow mirror, 802.1p Support SP+WRR
AAA (Authentication, Authorization, and Accounting) 802.1x authentication (Port Based, MAC Based, Web
IP source guard DoS prevention
Guest VLAN Auto voice VLAN
QinQ (802.1Q) Loop guard

DETAILED TECHNICAL SPECIFICATIONS

HARDWARE SPECIFICATIONS

	1G RJ45 Downlinks	1G Fiber 10G Fiber Uplinks	Uplinks	PoE	Hot swap PSU / RPS	1G RAM and FLASH	Hot swap Fans
SN-2324G-4XGF	24	-	4	-	-	-	-
SN-2324GP-4XGF	24	-	4	PoE+ 400W	-	-	-
SN-2324GMP-4XGF	24	-	4	PoE+ 740W	-	-	-
SN-2324GP-4XGF-RPS	24	-	4	PoE+ 400W	RPS	-	-
SN-2324GMP-4XGF-RPS	24	-	4	PoE+ 740W	RPS	-	-
SN-2324G-4XGF-RPS	24	-	4	-	RPS	-	-
SN-2424G-4XGF-ACDC-HSP	24	-	4	-	Hot swap 2PSU AC+DC24V	-	-
SN-2324G-4XGF-ACDC-HSP	24	-	4	-	Hot swap 2PSU AC+DC24V	-	-
SN-2324G-4GF-ACDC-HSP	24	4	-	-	Hot swap 2PSU AC+DC24V	-	-
SN-2324G-4XGF-HSP-HSF	24	-	4	-	Hot swap 2PSU	-	+
SN-2324G-4XGFMP-HSP	24	-	4	PoE budget 500W+500W	Hot swap 2PSU	-	-
SN-2324G-4XGFMPP-HSP	24	-	4	PoE budget 740W+740W	Hot swap 2PSU	-	-
SN-2424G-4XGFMP-HSP-HSF	24	-	4	PoE budget 500W+500W	Hot swap 2PSU	-	+
SN-2324G-4XGF-RPS	24	-	4	-	RPS	-	-
SN-2324GP-4XGF-RPS	24	-	4	PoE+ 400W	RPS	-	-
SN-2424G-4XGF	24	-	4	-	-	+	-
SN-2424GP-4XGF	24	-	4	PoE+ 400W	-	+	-

The switch model with a 1G SFP uplink port does not support the stacking feature.
Each switch has USB, OOB, and Console interfaces. In PoE-enabled devices, all 24 ports support PoE.

DETAILED TECHNICAL SPECIFICATIONS

Hardware

Marvell Chipset	98DX223S/ 98DX336S
MTBF	100,000h
Case	440*250*44 (L*W*H)
Weight	PoE: 3.5KG Non PoE: 2.8KG

Environment

Operating temperature	-5 ° C (23 ° F) to 65 ° C (149 ° F)
Humidity	5% ~ 95% non-condensing

Capacity

Switching capacity	128 Gbps
Forwarding rate	95 Mpps
MAC address table	Max 16k
Packet buffer size	3 MB
Active VLANs support	4096
Maximum jumbo frame size	9,216 bytes

DETAILED TECHNICAL SPECIFICATIONS

SOFTWARE FEATURES

Quality of Service

DiffServ (Differentiated services)	Strict priority support
Priority queue	Traffic shaping/policing
ACL mapping to priority queue	WRR support
Flow mirror, 802.1p Support	SP+WRR
Flow redirection	Rate limiting (Based on per port and per queue)
Single Rate Three Color Marker (srTCM)	Class map defines traffic flow with ACLs or support for network traffic management
Two Rate Three Color Marker (trTCM)	Policy map & route MAP to define the action for a set of classified inbound traffic
QoS based on classification (Based on IP, MAC and VLAN)	

Security

RADIUS, TACACS+	Downloadable ACL
Port security	Dynamic ACL
DHCP Snooping	Role based access control
AAA (Authentication, Authorization, and Accounting)	802.1x authentication (Port Based, MAC Based, Web Based)
ACL (Based On IP, Port, Protocol, MAC, Time Based)	Management ACL
IP source guard	DoS prevention
Protected port	Secure copy (SCP)
ARP inspection (DAI & SAI)	Kerberos
SSL	

Multicast

Internet Group Management Protocol -IGMP v1/v2/v3	Multicast Listener Discovery- MLD v1/V2
IGMP snooping	MLD snooping
PIM-SM/SSM	Multicast TV VLAN
PIM-SMv6	MVR (Multicast VLAN registration)

DETAILED TECHNICAL SPECIFICATIONS

Layer 2

Port Tagging/untagged	BPDU guard
MAC based VLANs	GVRP
Private VLAN	LLDP/LLDP MED
Subnet based VLAN	RADIUS assigned VLAN
Auto MDI/MDIX	Link aggregation (Ether Channel)
Loopback detection	Link Aggregation Control Protocol (LACP)
Port isolation	Port mirroring (Port, ACL, VLAN Based)
Root guard	Default VLAN
Guest VLAN	Auto voice VLAN
Energy Efficient Ethernet (EEE)	Green Ethernet
Link flapping detection	Flow control
STP/RSTP/MSTP	Native VLAN
QinQ (802.1Q)	Loop guard

Layer 3

IPv4 and IPv6 dual stack	IPv6 prefix list
Intra-Site Automatic Tunnel Addressing Protocol (ISATAP)	IP source guard
Policy Based Routing (PBR)	DHCP server
ARP, Gratuitous ARP	DHCP relay
DHCP Client	IPv6 NDRA (Neighbor Discovery Router Advertisement)
ICMP redirect & ICMP unreachable	Duplicate Address Detection (DAD)
IPv6 SLAAC (Stateless Address Auto configuration)	IPv6 ND
ARP-Proxy	DHCP Option 82, 66, 67

Layer 3 Routing

Static routing (IPv4, IPv6)	Inter-VLAN routing
Routing Information Protocol, version 2 (RIPv2)	OSPFv2/v3 (Open Shortest Path First)

High Availability

Stacking (Up-to 8 members)	Ring Redundancy Protocol (RRP)
Equal-Cost Multi Path (ECMP)	Virtual Router Redundancy Protocol (VRRP)
Storm control (Broadcast, Multicast, Unicast)	

DETAILED TECHNICAL SPECIFICATIONS

Management

Local GUI	Management: RUDDER (Controller)/Standalone
Industrial standard CLI	SPAN/RSPAN
Telnet support	SSHv1/v2
Storage & File management with USB	Firmware auto install support
TFTP support	Syslog server
SNMP v1/v2c/v3	RMON (All 4 Groups 1,2,3,9)

Standard Compliance

IEEE Standards Compliance	
802.1AB LLDP/ LLDP-MED	802.3ae 10 gigabit Ethernet
802.1D MAC bridging	802.3at power over Ethernet Plus
802.1p Mapping to priority queue	802.3u 100Base-TX
802.1s Multiple Spanning Tree (MST)	802.3x flow contro
802.1w Rapid Reconfiguration of Spanning Tree (RSTP) 802.3z 1000Base-SX/LX	
802.1x Port-based Network Access Control (PNAC)	802.3 MAU MIB (RFC 2239)
802.3 Carrier Sense Multiple Access/Collision Detection(CSMA/CD)	802.1Q VLAN tagging
802.3ab 1000Base-T	802.3az Energy Efficient Ethernet
802.3 10Base-T	802.3af Power over Ethernet
802.3ad link aggregation (Dynamic and Static)	

Monitoring and Troubleshooting

Errdisable detection and recovery	CPU Utilization
Device temp/PSU/FAN/status display & alarm	User operation logs
Virtual cable test	Management logs, alarms
ICMPv4/v6	DDM (Digital Diagnostic Monitoring)
Traceroute	UDLD (Unidirectional Link Detection)

Packaging Content

Switch with type D power cord with rack mounting kit

DETAILED TECHNICAL SPECIFICATIONS

CERTIFICATION & COMPLIANCES

Regulatory	Environmental
FCC	RoHS
BIS	CE
TEC	

DETAILED TECHNICAL SPECIFICATIONS

ORDERING INFORMATION

Models	Description
SN-2324G-4XGF	Campus Switch L2, 24 x 1G+4 x 10G
SN-2324GP-4XGF	Campus Switch L2, 24 x 1G+4 x 10G, PoE+ 400w
SN-2324GMP-4XGF	Campus Switch L2, 24 x 1G+4 x 10G, PoE+ 740w
SN-2324GP-4XGF-RPS	Campus Switch L2, 24 x 1G+4 x 10G, PoE+ 400w, Dying gasp, Redundant power supply
SN-2324GMP-4XGF-RPS	Campus Switch L2, 24 x 1G+4 x 10G, PoE+ 740w, Dying gasp, Redundant power supply
SN-2324G-4XGF-RPS	Campus Switch L2, 24 x 1G+4 x 10G, no PoE, Dying gasp, Redundant power supply
SN-2424G-4XGF-ACDC-HSP	Campus Switch L3, 24 x 1G+4 x 10G,Non-PoE, Hot-swappable 2PSU AC+DC24V
SN-2324G-4XGF-ACDC-HSP	Campus Switch L2, 24 x 1G+4 x 10G,Non-PoE, Hot-swappable 2PSU AC+DC24V
SN-2324G-4GF-ACDC-HSP	Campus Switch L2, 24 x 1G+4 x 1G,Non-PoE, Hot-swappable 2PSU AC+DC24V
SN-2324G-4XGF-HSP-HSF	Campus Switch L2, 24 x 1G ETH+4 x 10G, No PoE, Dying Gasp, 2 hot swappable PSU 100W +100W, Redundant Fan Trays
SN-2324G-4XGFMP-HSP	Campus Switch L2, 24 x 1G ETH+4 x 10G, Dying Gasp, 2 hot swappable PSU 600W+600W(PoE budget 500W+500W)
SN-2324G-4XGFMPP-HSP	Campus Switch L2, 24 x 1G ETH+4 x 10G, Dying Gasp, 2 hot swappable PSU 820W+820W(PoE budget 740W+740W)
SN-2424G-4XGFMP-HSP-HSF	Campus Switch L2, 24 x 1G ETH+4 x 10G, Dying Gasp, 2 hot swappable PSU 600W+600W(PoE budget 500W+500W), Redundant Fan Trays
SN-2324G-4XGF-RPS	Campus Switch L2, 24 x 1G+4 x 10G, Non-PoE, Internal 2PSU
SN-2324GP-4XGF-RPS	Campus Switch L2, 24 x 1G+4 x 10G, PoE+ 400w, Internal 2PSU
SN-2424G-4XGF	Campus Switch L3, 24 x 1G+4 x 10G, 1G DDR, 1G FLASH
SN-2424GP-4XGF	Campus Switch L3, 24 x 1G+4 x 10G, PoE+ 400w, 1PSU, 1G DDR, 1G FLASH

In all configurations: USB, OOB, and Console.

All switches include 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.