



HS3100 Series

Hummer Switch Datasheet


Suitable for the access switch in a campus network




Product Overview

The HS3100 Hummer Series are the gigabit switch independently developed by SUNDRAY. The Hummer Switch adopts a SDN architecture design, the Switch can be managed by the SUNDRAY NAC Controller with zero configuration, just like the AP in the thin mode. 100% the functions of the Switches can be configured via the NAC controller, including IP,VLAN, STP, ACL, QOS, etc. The NAC can monitor and visualize the status, including the switch load, port forwarding rates, network topology, etc.

HS3100 series switches are in the leading position among similar products, They are particularly suitable as access devices campus networks.

Models and Photos

Model	Main Specifications
 <p>HS3100-10M-SI-8T</p>	<ul style="list-style-type: none"> ● 8 * 10/100/1000Base-T ports, 2 * 1G/2.5G SFP ports ● AC power input ● Switch capacity: 672Gbps/6.72Tbps ● Packet forwarding rate: 102Mpps/126Mpps

Model	Main Specifications
 <p data-bbox="207 415 521 443">HS3100-10M-PWR-SI-8T</p>	<ul data-bbox="618 275 1333 443" style="list-style-type: none"> ● 8 * 10/100/1000Base-T POE ports, 2 * 1G/2.5G SFP ports ● AC power input ● Switch capacity: 672Gbps/6.72Tbps ● Packet forwarding rate: 102Mpps/126Mpps
 <p data-bbox="199 636 451 663">HS3100-28M-SI-24T</p>	<ul data-bbox="618 499 1289 674" style="list-style-type: none"> ● 24 * 10/100/1000Base-T ports, 4 * 1G/2.5G SFP ports ● AC power input ● Switch capacity: 672Gbps/6.72Tbps ● Packet forwarding rate: 126Mpps/179Mpps
 <p data-bbox="199 852 529 879">HS3100-28M-PWR-SI-24T</p>	<ul data-bbox="618 747 1349 921" style="list-style-type: none"> ● 24 * 10/100/1000Base-T POE ports, 4 * 1G/2.5G SFP ports ● AC power input ● Switch capacity: 672Gbps/6.72Tbps ● Packet forwarding rate: 126Mpps/179Mpps

Hummer Features

Intuitive Network Management

- The Hummer Switch managed via the network controller to provide an interactive and friendly Web GUI. 1:1 display Switch port and panel status. It can vividly show the working status of Switch ports, system resource usage, traffic trends, etc. and supports configuration via clicking on the port, for example, setting VLAN and so on.
- The Hummer Switch adopts the "zero touch provisioning" design. After the switch is connected to the cable, it will automatically be discovered by controller, just one click, it will be approved. At the same time, the controller can replace the detective switch via one clicking.
- The Hummer Switch can automatically show its topology in controller. and can directly configure the Switch via clicking the topology.
- Greatly improve the efficiency of troubleshooting, for example, when the connection between the switch and the control platform is lost due to a misconfiguration, IT staff can directly modify the configuration of the Switch in the topology without having to go onsite.

Secure Access Control and QoS

- The Hummer Switch supports rich access control policies, such as protocol-based (for example: UDP, ARP) ACL and ACL based on custom protocol, switch ports, aggregation port, source and destination IP address, MAC address, and time.
- The Hummer Switch supports re-marking the traffic matching ACL to realize traffic supervision. and setting the packet forwarding rate according outbound and the inbound direction per port.
- The Hummer Switch supports multiple scheduling modes (for example: polling mode, strict priority mode, etc.) to achieve traffic based on packets or ports priority, it can realize COS, DSCP priority mapping based on Switch group.

Products Specifications

Items	HS3100-10M-SI-8T	HS3100-10M-PWR-SI-8T	HS3100-28M-SI-24T	HS3100-28M-PWR-SI-24T
Default service ports	8 * 10/100/1000 Base-T ports 2 * 1G/2.5G SFP ports	8 * 10/100/1000 Base-T POE ports 2 * 1G/2.5G SFP ports	24 * 10/100/1000 Base-T ports 4 * 1G/2.5G SFP ports	24 * 10/100/1000 Base-T POE ports 4 * 1G/2.5G SFP ports
Management port	1*Console port			
Dimensions(W*D*H)	220x150x44 (mm)	280x180x44 (mm)	440x280x44 (mm)	440x280x44 (mm)
Wight	0.92kg	1.70kg	3.10kg	3.9kg
POE Standard	/	IEEE 802.3af/at	/	IEEE 802.3af/at
POE Budget	/	125W	/	370W
Power consumption	≤7W	≤181W	≤17.2W	≤473.1W
Working Layer	L2 Switch			
Work temperature Operating/storage humidity	Work temperature : 0°C ~ 45°C Storage temperature: -20°C ~ 70°C Work humidity: 5% ~ 90% (RH non-condensing) Storage humidity: 5% ~ 95% RH (non-condensing)			
LED	System indicator and power indicator All network interfaces have working status light indicators			

Lightning protection for service port	common mode ±6kV
Work mode	Support fat (standalone) and thin mode (controller-based mode)
Switch discovery	Layer 2 broadcast automatically discovers wireless AC Configure Static IP Address Layer 3 to discover wireless ACs DHCP Option 43 Discovers Wireless AC DNS Domain Name Discovery Wireless AC SDP Discovery
One Click Replacement	Support to replace the defective Switch via clicking the replace button in the controller
MAC	16K MAC address 16K MAC address 16K MAC address 16K MAC address
	Support MAC address learning and aging automatically Support static, dynamic MAC entries Support source MAC address filtering Support MAC address aging
VLAN	Support 4K VLAN Voice VLAN support Support default VLAN, Guest VLAN Support Access, Trunk, Hybrid Switch port mode
STP	Support 802.1D(STP),802.1W(RSTP),802.1S(MSTP) Support BPDU Guard, root protection and loopback protection
ACL	Support Standard IP ACL (IP Address Based Hardware ACL) Support extended IP ACL (hardware ACL based on IP address, TCP/UDP port number) Support MAC extended ACL (hardware ACL based on source MAC address, destination MAC address, and optional Ethernet type) Support based on time ACL Support expert ACL (a hardware ACL that can be flexibly combined based on the VLAN number, Ethernet type, MAC address, IP address, TCP/UDP port number, protocol type, and time)
QOS	Support port traffic identification Supports port traffic rate limit Support 802.1p / DSCP / TOS traffic classification

	8 priority queues per port Support SP, WRR, SP + WRR, RED / WRED queue scheduling
Multicast	Supports IGMP v1/v2/v3 Snooping Support multicast forwarding in a VLAN
Port Aggregation	Support manual and static LACP
Routing	Support IPv4 and IPv6 static routing
Security Features	Support DHCP Relay, DHCP Snooping Support blacklist and whitelist Administrator hierarchical management Support SSH V2.0 Support HTTPS access
NMS	Support NAC unified management Support across WAN, NAT remote management Support SNMPv1/v2C/v3, CLI (Telnet/Console), SSH, Web Support send Log File data in Syslog format to Syslog server
Switch Profiling	Support monitors the Switch's status such as traffic, user, port status, also user can change the configuration of VLAN, port, DHCP, POE power supply via Controller's Web UI.
Energy saving	supports the IEEE 802.3az standard. when the EEE is enabled, the power consumption of the port at this stage is drastically reduced, thereby saving energy.
Safety & EMC	Meets the security requirements of FCC, CE: EN55022, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1. RoHS

Order Information

Item	Description	Remark
HS3100-10M-SI-8T	SUNDRAY Hummer Switch, 8 10/100/1000Base-T Ethernet ports, 2 1G/2.5G SFP optical ports; switching capacity \geq 672Gbps/6.72Tbps, packet forwarding rate \geq 102Mpps/126Mpps support for unified management of NMC/vNMC/NAC/SAC and Smart network topology, unified view status, VLAN and other configuration management;	Essential
HS3100-10M-PWR-SI-8T	SUNDRAY Hummer POE Switch, 8 10/100/1000Base-T POE Ethernet ports, 2 1G/2.5G SFP optical ports; switching capacity \geq 672Gbps/6.72Tbps, packet forwarding rate \geq 102Mpps/126Mpps	Essential

	IEEE 802.3af/at power supply standard, single port maximum output PoE power 30W, the whole machine maximum output PoE power 140W support for unified management of NMC/vNMC/NAC/SAC and Smart network topology, unified view status, VLAN and other configuration management;	
HS3100-28M-SI-24T	SUNDRAY Hummer Switch, 24 10/100/1000Base-T Ethernet ports, 4 1G/2.5G SFP optical ports; switching capacity \geq 672Gbps/6.72Tbps, packet forwarding rate \geq 126Mpps/179Mpps, support for unified management of NMC/vNMC/NAC/SAC and Smart network topology, unified view status, VLAN and other configuration management;	Essential
HS3100-28M-PWR-SI-24T	SUNDRAY Hummer POE Switch, 24 10/100/1000Base-T POE Ethernet ports, 4 1G/2.5G SFP optical ports; switching capacity \geq 672Gbps/6.72Tbps, packet forwarding rate \geq 126Mpps/179Mpps, IEEE 802.3af/at power supply standard, single port maximum output PoE power 30W, the whole machine maximum output PoE power 370W support for unified management of NMC/vNMC/NAC/SAC and Smart network topology, unified view status, VLAN and other configuration management;	Essential
SFP-GE-COPPER	Gigabit SFP to copper transceiver.	Optional
SFP-GE-MM850	Gigabit SFP multiple mode optical module, 550m, LC connector.	Optional
SFP-GE-MM850-I	Gigabit SFP multiple mode optical module, 550m, industrial-grade, LC connector.	Optional
SFP-GE-SM1310-10KM	Gigabit SFP single mode optical module, 10km,	Optional
SFP-GE-SM1310-20KM-I	Gigabit SFP single mode optical module, 20km, industrial-grade, LC connector.	Optional
SFP-GE-SM1310-40KM	Gigabit SFP single mode optical module, 40km, LC connector.	Optional
SFP-GE-SM1550-80KM	Gigabit SFP single mode optical module, 80km, LC connector.	Optional



SANGFOR



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Document Version: 20250814-V1.0

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