

SS2GD10

L2 Plus Managed GbE Switch

The SS2GD10 Managed Switch is the next generation of Ethernet Switches. The switch offers a full suite of L2 features and advanced L3 features such as Static Route. This functionality improves the performance and lowers the total cost of ownership for your network. You get double the functionality and reliability from one single Layer 2 switch.

SS2GD10 delivers 8 (10M/100M/1G) RJ45 ports, 2 Combo GbE RJ45 /SFP ports and 1 RJ45 Console port. It provides high HW performance and environment flexibility for any SMBs/Enterprises.



SS2GD10 is ideal solution to deliver management simplicity, optimum user experience, and lower total cost of ownership. The embedded Device Managed System is designed to be extremely easy to use and manage. It will assist with the network installation and deployment of IP Phones, IP Cameras or Wifi access points.

Key Features

- L2+ Managed features provide easier manageability, robust security and QoS.
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 L3 static route
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet

Benefits

- Feature-rich Ethernet Switch for Enterprise-class
The switch delivers advanced functionality in L2+ managed switching including Layer 3 static route, DHCP server, IPv6 support and LLDP. It also has comprehensive security features such as IP source guard and ACL to guard your network from unauthorized access. It helps users to build on the market-leading price/performance with L2+ Managed GbE switch, and provide secure, reliable and ease of use for enterprise/SMB deployments.
- Easy to Install, Configure and Troubleshoot by Device Management System
The DMS provides embedded functions to facilitate devices management at anytime and anywhere. Its user-friendly interface helps users to manage devices intuitively. It supports various IP device types (e.g. IP-phone, IP-camera, WiFi-AP) for end users to enhance manageability and save time/cost during installation/maintenance stages.
- Lower Total Cost of Ownership (TCO) with Energy-efficient Design
It is designed to help customers reduce power consumption and lower the TCO by Energy Efficient Ethernet (IEEE 802.3az) features. It can be used for customers to build a green Ethernet networking environment.

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Specifications

Port Configuration

Total Ports	• 10
RJ45 (10M/100M/1G)	• 8
Uplinks (100M/1G)	• 2 RJ45/SFP combo
Console	• RJ45

Hardware Performance

Forwarding Capacity	• 14.88 Mpps
Switching Capacity	• 20 Gbps
Mac Table	• 8K
Jumbo Frames	• 9216 Bytes

Software Features

Layer 2 Switching	
Spanning Tree Protocol (STP)	<ul style="list-style-type: none"> • Standard Spanning Tree 802.1d • Rapid Spanning Tree (RSTP) 802.1w • Multiple Spanning Tree (MSTP) 802.1s
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad <ul style="list-style-type: none"> • Up to 5 groups • Up to 2 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) <ul style="list-style-type: none"> • Port-based VLAN • 802.1Q tag-based VLAN • MAC-based VLAN • Management VLAN • Private VLAN Edge (PVE) • Q-in-Q (double tag) VLAN • Voice VLAN • GARP VLAN Registration Protocol (GVRP)
DHCP Relay	<ul style="list-style-type: none"> • Relay of DHCP traffic to DHCP server in different VLAN. • Works with DHCP Option 82

IGMP v1/v2/v3 Snooping	• IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups
IGMP Querier	• IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
IGMP Proxy	• IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
MLD v1/v2 Snooping	• Delivers IPv6 multicast packets only to the required receivers

Device Management System (DMS)

Graphical Monitoring	<ul style="list-style-type: none"> • Topology view: Support intuitive way to configure and manage switches and devices with visual relations • Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces • Map view: Enhance efficiency to drag and drop devices and monitor surroundings on google map
Find my Switch	• Search your real switches quickly and manage directly.
Traffic Monitoring	• Display visual chart of network traffic of all devices and monitor every port at any time from switches
Trouble Shooting	<ul style="list-style-type: none"> • Network diagnostic between master switch and devices • Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading

Layer 3 Switching

IPv4 Static Routing	• IPv4 Unicast: Static routing
IPv6 Static Routing	• IPv6 Unicast: Static routing

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Security

Secure Shell (SSH)	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
IEEE 802.1X	<ul style="list-style-type: none"> IEEE802.1X: RADIUS authentication, authorization and accounting, MD5hash, guest VLAN, single/multiple host mode and single/multiple sessions Supports IGMP-RADIUS based 802.1X Dynamic VLAN assignment
Layer 2 Isolation Private VLAN Edge	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch
RADIUS/ TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
ACLs	Supports up to 256 entries. Drop or rate limitation based on: <ul style="list-style-type: none"> Source and destination MAC, VLAN ID or IP address, protocol, port, Differentiated services code point (DSCP) / IP precedence TCP/ UDP source and destination ports 802.1p priority Ethernet type Internet Control Message Protocol (ICMP) packets TCP flag

Quality of Service

Hardware Queue	Supports 8 hardware queues
Scheduling	<ul style="list-style-type: none"> Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service
Classification	<ul style="list-style-type: none"> Port based 802.1p VLAN priority based IPv4/IPv6 precedence / DSCP based Differentiated Services (DiffServ) Classification and re-marking ACLs
Rate Limiting	<ul style="list-style-type: none"> Ingress policer Egress shaping and rate control Per port

Management

DHCP Server	Support DHCP server to assign IP to DHCP clients
Zero Touch Upgrade	Upgrade single switch automatically when you get notification
Remote Monitoring (RMON)	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
UPnP	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
s-Flow	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats

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IEEE 802.1ab (LLDP)	<ul style="list-style-type: none"> Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network Support LLDP-MED extensions 	Environmental Range <ul style="list-style-type: none"> - Operating Temperature: 32 to 113°F (0 to 45°C) - Storage Temperature: -4 to 158°F (-20 to 70°C) - Altitude: < 10000 Feet (< 3000 Meters)
Web GUI Interface	<ul style="list-style-type: none"> Built-in switch configuration utility for browser-based device configuration 	Dimensions(WXHXD): <ul style="list-style-type: none"> 220 x 38 x 134 mm 8.7" x 1.5" x 5.28"
CLI	<ul style="list-style-type: none"> For users to configure/manage switches in command line modes 	Weight: <ul style="list-style-type: none"> 1.4Kg (3.1Lbs)
Dual Image	<ul style="list-style-type: none"> Independent primary and secondary images for backup while upgrading 	Operating humidity: <ul style="list-style-type: none"> 10% to 90%, noncondensing
SNMP	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)	Power: <ul style="list-style-type: none"> 100-240 VAC 50-60 Hz
Firmware Upgrade	<ul style="list-style-type: none"> Web browser upgrade (HTTP/ HTTPS) and TFTP Upgrade through console port 	Certification <ul style="list-style-type: none"> CE, FCC Part 15 Class A
NTP	<ul style="list-style-type: none"> Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched networks 	
Other Management	HTTP/HTTPS; SSH DHCP Client/ DHCPv6 Client Cable Diagnostics Ping Syslog Telnet Client IPv6 Management	

Warranty and Support

Warranty: Limited lifetime Warranty for as long as the original customer/end user owns the product, or 5 years after product discountinuance, whichever occurs first (excluding power supplies and fans), Power supplies and fans carry a limited 1 year warranty.

Support: Free technical support (phone/email); Software support; Premium incident support.

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