GSM3112 Ethernet Switch

ProSwitch[®] GSM Managed Gigabit Switch with PoE Model

Model: GSM3112 GSM3112-POE

Key Highlights

- 12 port 10/100/1000Base-TX switch with 2 slots for 100Base-FX or 1000BaseSX/LX SFP fiber modules (12 useable ports)
- Energy Efficient
 - IEEE 802.3az
 - Uses low-power technology
 - Adjusts signal strength based on cable length
- PoE Functions
 - Supports IEEE 802.3at high power PoE
 - Up to 30 watts of power per port
 - Connect IP telephones, cameras and wireless APs
- Advanced Network Management
 - IPv4 and IPv6 support
 - SNMP
 - LLDP
 - S-Flow
 - SSL/SSH
 - ACLs
 - Guest VLANs
 - IP Source Guard
 - RADIUS/TACACS
 - Private VLAN Edge (PVE)
- Convection cooled for quiet operation
- Available with or without security housing
- Backed by Waters' limited lifetime warranty

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Waters Network Systems' GSM3112 models are layer 2+ managed switches that provide the ultimate in flexibility for small to medium sized workgroups. All models are compact twelve port switches that deliver power, performance and reliability in a cost-effective, space saving design. The GSM3112-POE models provides up to 30 watts PoE power per port.

Features and Benefits

- **Device management software.** The GSM3112 models incorporate an intuitive, web-based interface used to access the management functions. CLI access is also available.
- Link Layer Discover Protocol (LLDP). The GSM3112 supports the IEEE 802.1ab standards based discovery protocol and provides vendor-independent device discovery. LLDP not only simplifies switch deployment and location of devices, but it can also be used as a troubleshooting, monitoring and firmware management tool.
- **QoS support.** The GSM3112 includes embedded QoS intelligence used to prioritize services such as voice, easily unified deployments and helps ensure consistent network performance for all services.

The voice VLAN capabilities allow any IP phone to be plugged into the IP telephony network and receive an immediate dial tone. The switch will configure the device with the specific VLAN and QoS parameters to prioritize the voice traffic easily.

- Network security. The GSM3112 provides 802.1x which enables user authentication for each network access attempt. Port security allows you to limit the number of MAC addresses per port for better control. Static MAC addresses can be defined for each port to ensure only registered workstations are allowed access. By enabling both of these features, you can establish an access mechanism based on user and workstation identities, as well as control the number of access stations.
- **Power savings features.** The GSM3112 delivers green power technology by using the Energy Efficient Ethernet (EEE) option. EEE reduces power usage when there is a very low traffic utilization (or no traffic).

EEE works by powering down circuits when there is no traffic, and automatic PoE power shutoff is invoked when a line is down or set with the PoE scheduling function. Embedded intelligence is used to adjust power strength based on cable length.



GSM3112-Ethernet Switch

ORDERING INFORMATION

Model		Description	
10/100/1000Mpbs Ma	naged Ethernet Swit		
GSM3112	12-port managed switch with 12 10/100/1000Base-TX ports plus 2 ports for 100Base-FX or 1000BaseSX/LX SFP fiber modules (12 useable ports)		
GSM3112-SH		tch with 12 10/100/1000Base-TX ports plus 2 useable ports; includes integrated security	
GSM3112-POE		tch with 12 10/100/1000Base-TX (8 PoE) ports plus 2 ports for 100Base-FX or fiber modules (12 useable ports)	
GSM3112-POE-SH	12-port managed sw	itch with 12 10/100/1000Base-TX (8 PoE) ports plus 2 ports for 100Base-FX or P fiber modules (12 useable ports; includes integrated security housing)	
SFP Fiber Modules			
SFP-100FX-LC	1 port 100Base-FX I	MM fiber module with LC connector	
SFP-100FX-LC-SM10	1 port 100Base-FX SM (10km) fiber module with LC connector		
SFP-100FX-LC-SM40	1 port 100Base-FX SM (30km) fiber module with LC connector		
SFP-1000SX-LC	1 port 1000Base-SX MM fiber module with LC connector		
SFP-1000LX-LC10	•	SM (10km) fiber module with LC connector	
SFP-1000LX-LC30		SM (30km) fiber module with LC connector	
SPECIFICATIONS			
 OPERATIONAL CHARACTERISTICS: MAC Address Table > 8K Switching Capacity and Forwarding Rate > 17.86Mpps (64-byte packets) > 24Gbps switching capacity 		 IPv6 (Web/SSL, Telnet/SSH, ping, SNMP, RADIUS, Syslog, DNS Client and protocol based VLANs Rate Limiting (ingress/egress) Dual image supported GARP/GVRP RMON Firmware upgrade 	 POWER SUPPLY: Internal power supply Input Voltage 100 to 240 VAC, 50 to 60Hz Power Consumption GSM3112: Full load max pwr 7.74 watts
Frame size supported up to 9Kb		 s-Flow (RFC 3176) UpnP CIDR 	GSM3112-POE: Full load max pwr 127.66 watts
 POWER SAVINGS FEATURES Energy detect 		• GIDR	OPERATING ENVIRONMENT:
Cable length detection		NETWORK STANDARDS: ▶ IEEE 802.1d/w	Cooling Method: Convection
 MANAGEMENT FUNCTIONS: Web-based and console Remote management SNMP Link layer discovery protocol (LLDP) support Port setting for duplex and speed Port trunking (up to 4 groups; up to 8 ports ports port group) 		 IEEE 802.1p IEEE 802.1q IEEE 802.1s IEEE 802.1x IEEE 802.3 IEEE 802.3ad IEEE 802.3az 	Ambient Temperature: > 32° to 104°F (0° to 40°C) Storage Temperature > -4° to 158°F (-20° to 70°C) Ambient Humidity: > 10% to 90% (non-condensing)
per group) VLANs Port based Tag based MAC based Management VLAN Private VLAN		 IEEE 802.3ab IEEE 802.3at (GSM3112-POE) IEEE 802.3u IEEE 802.3x IEEE 802.3z 	MECHANICAL: Enclosure: ► Mounting kit available PHYSICAL CHARACTERISTICS: Dimensions - GSM3112
 Private VLAN Edge (PVE) Port mirroring DHCP Option 82 SNMP v1, v2c and v3 IGMP v1, v2 and v3 snooping IGMP querier IGMP proxy MLD v1 and v2 snooping SSH v1 and v2 SSL 		 GSM3112-POE FUNCTIONS: PoE-PSE activity LED indicator Auto detect powered devices and consumption levels Supports per port power consumption monitoring and per port priority setting Supports per port PoE state and power priority setting 	 11 x 6.5 x 1.73 in 280 x 166 x 44mm Dimensions-GSM3112-SH 13.12 x 12.27 x 2.195 in 333 x 312 x 55.8mm Dimensions - GSM3112-POE 11 x 8 x 1.73 in 280 x 210 x 44mm Dimensions-GSM3112-POE-SH
802.1x RADIUS authentication		EMI/SAFETY COMPLIANCE:	 13.12 x 14 x 2.195 in 333 x 356 x 55.8 mm

FCC Part 15 (CFR47) Class A & CE Mark

NETWORK CABLE CONNECTORS:

▶ 10/100Mbps: CAT5 UTP or better

Multimode or singlemode with LC

Approval UL60950 CSA 22.2

RJ45 shielded female ports

connectors

- Port security
- IP source guard
- RADIUS / TACACS authentication
- Storm control ACLs
- QoS supports 8 hardware queues
- Supports strict priority and weighted roundrobin (WRR); queue assignment based on DSCP and class of service
- IPv4
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- ▶ 333 x 356 x 55.8 mm
- Weight-GSM3112 Models:
- 3lbs (1.37kg)
 Weight-GSM3112-SH Models: 6lbs (2.77kg)

WARRANTY:

Limited Lifetime