



ProSwitch® PoE Managed Gigabit PoE Classroom/Workgroup Switches

Models: **GSM1009-8POE**
GSM2109-8POE

Key Highlights

- ▶ Managed 9 port switch with 8 10/100/1000Base-TX PoE ports plus 1 10/100/1000Base-TX port and 1 mini GBIC for 1000Base-SX or LX fiber (9 usable ports)
- ▶ Management features include:
 - Access via web, Telnet and CLI
 - SNMP, V1, V2 and V3
 - RMON
 - IGMP snooping and query mode
 - 802.1x user authentication
 - QoS (port and tag based)
 - CoS (four queues)
 - Port security
 - VLANs
 - GVRP
 - Port mirroring
 - Flow control
 - MAC address security
 - Spanning tree protocol
 - 802.3ad Trunk with LACP
 - TFTP firmware update
 - IP Management Security
 - DHCP client/relay
 - SNTP and SMTP Support
 - X-ring function provides dual homing and coupling ring
- ▶ PoE Management
- ▶ Internal power supply
- ▶ Reduces the cost of initial cable installation by eliminating the need for a cable for every workstation
- ▶ Backed by Waters' limited lifetime warranty

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GSM1009-8POE and GSM2109-8POE Ethernet Switches 10/100/1000Mbps Switch



GSM1009-8POE



GSM2109-8POE

Waters Network Systems' GSM1009-8POE and GSM2109-8PoE (Power over Ethernet) switches provide the ultimate solution for adding PoE functionality to any workgroup, classroom or office environment without changing or replacing core switching equipment by simply connecting to the LAN using a single drop of cable.

These compact nine port switches deliver power, performance and reliability in a cost effective space-saving design. The GSM-PoE switches are ideal for the deployment of PoE applications such as IP telephones, wireless access points, video surveillance, building management systems and remote video kiosks.

The GSM1008-8POE model includes Waters' unique rugged security housing which protects the electronics and limits tampering. The GSM-POE models are designed to be used outside the wiring closet in the end-user workspace. Intelligent network-wide management services are provided while maintaining the simplicity of traditional LAN switching.

Eight 10/100/1000Base-TX ports are available for workstations, printers or other Ethernet devices. All eight PoE ports provide power to end devices such as wireless access points, VoIP phones, security cameras, etc. directly through conventional UTP cables. An additional ninth port is available for Gigabit connectivity in either fiber or copper. This design provides the ultimate in flexibility for both copper and fiber-based LANs.

Features and Benefits

- **Embedded PoE Injector function.** Managed PoE functions provide remote enable/disable, power feeding priority, output power limiting via attached PD classification and Detect Legacy Signature (resistive and capacitive) for pre-standard and non-conforming 802.3af devices.
- **Security functions.** Use the IP security management to prevent unauthorized intruders. Port security can be set by MAC address.
- **802.1x support** for user authentications. The Radius server provides four conditions: reject, accept, authorize or disable.
- **QoS/CoS support.** Both models support four queues with weight round ratio High, Mid-High, Mid-Low and Low. QoS is port and tagged based with IPv4/IPv6 service.
- **Port mirroring helps monitor the network.** Port mirroring copies traffic from a specific port to a target port. Both models support three mirroring types: TX, RX and both packets. This function helps track network errors or abnormal packet transmission without interrupting the flow of data.
- **VLAN capable for performance and security.** VLANs are used to isolate traffic between users and thus provides better security. Limiting the broadcast traffic to the same VLAN broadcast domain also enhances performance. Both models support 802.1Q Tagged VLAN, Protocol VLAN and GVRP (up to 256 groups).



GSM1009-8POE and GSM2109-8POE Ethernet Switch

ORDERING INFORMATION

Model	Description
Managed Ethernet switch with internal power supply and classroom/workgroup security housing	
GSM1009-8POE	9 port managed switch with 8 10/100/1000Base-TX RJ45 PoE ports plus one 10/100/1000Base-TX port and 1 mini GBIC for 1000Base-SX or LX fiber. Includes classroom/workgroup security housing.
Managed Ethernet switch with internal power supply	
GSM2109-8POE	9 port managed switch with 8 10/100/1000Base-TX RJ45 PoE ports plus one 10/100/1000Base-TX port and 1 mini GBIC for 1000Base-SX or LX fiber.
SFP Fiber Modules	
SFP-1000SXLC	1 port 1000Base-SX MM fiber module with LC connector
SFP-1000LXLC-10	1 port 1000Base-LX SM (10km) fiber module with LC connector
SFP-1000LXLC-30	1 port 1000Base-LX SM (30km) fiber module with LC connector

SPECIFICATIONS

OPERATIONAL CHARACTERISTICS:

- MAC Address Table
 - ▶ 8k
- Switching Architecture
 - ▶ Store-and-forward
 - ▶ System backplane 18Gbps
 - ▶ System throughput up to 26.7Mbps
- Memory Buffer Size
 - ▶ 1Mb
- Performance
 - ▶ Non-blocking wire speed

MANAGEMENT FEATURES:

- ▶ Web-based, Telnet and CLI
- ▶ SNMP: Ver 1, 2 and 3
- ▶ SNMP trap support
- ▶ Link Layer Discovery Protocol (LLDP) support
- ▶ Port setting for duplex and speed
- ▶ Port trunking (up to 4 groups)
- ▶ Port based and tagged VLANs (up to 256)
- ▶ QoS (4 priority queues; port based, tag based and type of service priority)
- ▶ Class of Service (supports 4 queues per port)
- ▶ IGMP (Supports 256 IGMP groups and IGMP query)
- ▶ GVRP (256 groups)
- ▶ Port Security (supports ingress and egress MAC address filter)
- ▶ Port mirroring (supports 3 mirroring types: RX, TX and both packet)
- ▶ Broadcast storm
- ▶ Spanning Tree
- ▶ SMTP - 6 mail accounts
- ▶ System Log (1024 records)
- ▶ DHCP client / relay
- ▶ SNTP
- ▶ X-Ring provides Dual Homing and Couple Ring
- ▶ 802.1x User authentication/Radius server: reject, accept, authorize or disable

- ▶ RMON
 - ▶ Group 1 (detailed port statistics)
 - ▶ Group 2 (History for RMON database)
 - ▶ Group 3 (Alarm settings)
 - ▶ Group 9 (Sends events)

PoE SPECIFICATIONS:

- ▶ PoE Enable/Disable
- ▶ Power limit by classification (enable/disable PD power classification)
- ▶ Power limit by management (enable power feeding priority)
- ▶ Per port power feeding priority setting
- ▶ Power through Ports 1-8:
 - ▶ Positive (VCC+): RJ45 pin 4, 5
 - ▶ Negative (VCC-): RJ45 pin 7, 8
- ▶ Detect Legacy Signature (resistive and capacitive)
- ▶ Per port provides 15.4 watts
- ▶ LED indicators for PoE ready and activity

NETWORK STANDARDS:

- ▶ IEEE 802.3
- ▶ IEEE 802.3u
- ▶ IEEE 802.3z
- ▶ IEEE 802.3x
- ▶ IEEE 802.3ab
- ▶ IEEE 802.3ad
- ▶ IEEE 802.1d
- ▶ IEEE 802.1w
- ▶ IEEE 802.1p
- ▶ IEEE 802.1q
- ▶ IEEE 802.1x
- ▶ IEEE 802.af

EMI/SAFETY COMPLIANCE:

FCC Class A, CE, UL cUL CE/EN60950-1

NETWORK CABLE CONNECTORS:

- RJ45 shielded female ports
 - ▶ 10/100/1000Mbps: CAT5 UTP or better
 - ▶ MM and SM with LC connectors

POWER SUPPLY:

- Input Voltage
 - ▶ 100 to 240 VAC, 50 to 60Hz
- Power Consumption
 - ▶ 138 watts maximum

OPERATING ENVIRONMENT:

- Ambient Temperature:
 - ▶ 32° to 113°F (0° to 45°C)
- Storage:
 - ▶ -40° to 158°F (-40° to 70°C)
- Ambient relative humidity:
 - ▶ 5% to 95% (non-condensing)

MECHANICAL:

- Enclosure:
 - ▶ Rugged high-strength sheet metal suitable for stand-alone, wall or tabletop mounting
 - ▶ Cooling: Internal fan

PHYSICAL CHARACTERISTICS:

- Dimensions GSM2109-8POE:
 - ▶ 10.6 x 8.25 x 1.75 in (269 x 209.6 x 43mm)
- Weight:
 - ▶ 3 lbs (1.36kg)
- Dimensions GSM1009-8POE:
 - ▶ 13 x 11 x 2.25 in (330.2 x 279.4 x 57mm)
- Weight:
 - ▶ 5 lbs (2.27kg)

WARRANTY:

Limited Lifetime