

## Classroom/Workgroup Switches

Models: **GSM1008-8POE**  
**GSM2108-8POE**

### Key Highlights

- ▶ Managed 8-port switch with 8 10/100/1000 Base-TX PoE ports and two mini GBIC slots for 1000Base-SX or LX fiber (8 usable ports)
- ▶ GSM1008-8POE includes security housing:
  - Designed for easy upgrade and removal of internal switch
  - Protects electronics and limits tampering
  - Cable management for secure connectivity
  - Compact 11" x 10.5" x 2" size
  - Easily mounts to wall or table
- ▶ Power savings features
- ▶ Management features include:
  - Access via web or CLI
  - LLDP
  - IGMP
  - DHCP (option 82)
  - IPv4/IPv6
  - QoS
  - VLANs
  - ACL
  - GVRP
  - Port mirroring
  - Flow control
  - Spanning Tree
  - 802.3ad Trunk with LACP
  - SNMP
  - RMON
  - 802.1x Network Security
  - VSM
  - TFTP Firmware Upgrade
- ▶ Backed by Waters' limited lifetime warranty

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## GSM1008-8POE and GSM2108-8POE Gigabit PoE Ethernet Switches 10/100/1000Mbps Switches



GSM2108-8POE without security housing



GSM1008-8POE with security housing

### Waters Network Systems' GSM1008 and GSM2108-8POE (Power over Ethernet)

switches provide the ultimate in flexibility for small to medium sized workgroups. Both models are compact eight port switches that deliver power, performance and reliability in a cost-effective, space saving design. The GSM1008-8POE model includes the rugged security housing which protects the electronics and limits tampering.

Both models are designed to be used outside the wiring closet in the end-user workspace. Ideally suited for small workgroups, classrooms, home or office applications, both switches allow multiple users to attach to a single drop of cable. The internal power supply assures years of reliable operation.

### Flexibility

Eight 10/100/1000Base-TX ports are available for workstations, printers or other Ethernet devices. All eight ports provide power to end devices such as wireless access points, VoIP phones, security cameras, etc. directly through conventional UTP cables. Two additional ports are available for Gigabit connectivity in fiber. 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, auto detect powered device and consumption levels, status and power feeding priority with either 65 or 130 watts of total power.
- **802.1x Access control for improved network security.** Both models provide 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.
- **802.1q VLAN capability for performance and security.** VLANs are used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance. Both models support 802.1Q Tagged and Port VLANs with MVR management.
- **Power savings features.** Both models deliver green power technology by using two advanced energy saving design functions, automatic power savings (APS) and power reach function (PRF). Energy savings of up to 80 percent can be achieved with the APS and PRF power savings performance features.

1. APS mode detects and monitors Ethernet port status to reduce power consumption for unused or idle ports.
2. PRF is an intelligent algorithm that actively determines and adjusts the appropriate power level required based on cable length.



## GSM1008 and GSM2108-8POE Ethernet Switches

### ORDERING INFORMATION

Model	Description
GSM1008-8POE-65W	8-port managed switch with 8 10/100/1000Base-TX RJ45 (PoE) ports plus 2 mini GBIC slots for 1000Base-SX or LX SFP fiber modules. Includes internal power supply and classroom/workgroup security housing. (65 watts PoE power)
GSM1008-8POE-130W	8-port managed switch with 8 10/100/1000Base-TX RJ45 (PoE) ports plus 2 mini GBIC slots for 1000Base-SX or LX SFP fiber modules. Includes internal power supply and classroom/workgroup security housing. (130 watts PoE power)
GSM2108-8POE-65W	8-port managed switch with 8 10/100/1000Base-TX RJ45 (PoE) ports plus 2 mini GBIC slots for 1000Base-SX or LX SFP fiber modules. Includes internal power supply. (65 watts PoE power)
GSM2108-8POE-130W	8-port managed switch with 8 10/100/1000Base-TX RJ45 (PoE) ports plus 2 mini GBIC slots for 1000Base-SX or LX SFP fiber modules. Includes internal power supply. (130 watts PoE power)
SFP-1000SXLC	1-port 1000Base-SX MM fiber module with LC connector
SFP-1000LXLC-10	1-port 1000Base-SX SM (10km) fiber module with LC connector
SFP-1000LXLC-30	1-port 1000Base-SX SM (30km) fiber module with LC connector

### SPECIFICATIONS

#### OPERATIONAL CHARACTERISTICS:

##### MAC Address Table

- ▶ 8k

##### Switching Mode

- ▶ Store-and-forward

##### Throughput Supported

- ▶ 9Kb jumbo frame support

##### Performance

- ▶ Non-blocking wire speed

#### MANAGEMENT FEATURES:

- ▶ Web-based and console
- ▶ Link Layer Discovery Protocol (LLDP) support
- ▶ Port setting for duplex and speed
- ▶ Port trunking (4 groups)
- ▶ Port based and tagged VLANs
- ▶ QoS (4 traffic classifications)
- ▶ IGMP Snooping and Proxy
- ▶ DHCP Option 82
- ▶ GVRP/GARP
- ▶ Port mirroring
- ▶ Broadcast storm
- ▶ Spanning tree
- ▶ Rapid spanning tree
- ▶ 802.1x Network Security
- ▶ IP MAC port binding
- ▶ IPv4/IPv6
- ▶ ACL
- ▶ SSL/SSH
- ▶ Virtual Stacking Management (VSM)
- ▶ Firmware upgrade
- ▶ SNMP v1, v2c
  - ▶ RFC 1213 MIB (MIB-II)
  - ▶ RFC 1757 RMON MIB
  - ▶ RFC 1493 MIB Bridge MIB
  - ▶ RFC 1643 Ethernet MIB
  - ▶ Enterprise MIB

#### NETWORK STANDARDS:

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

#### PoE SPECIFICATIONS:

- ▶ PoE-PSE activity LED indicator
- ▶ Auto detect powered device and consumption levels
- ▶ Supports per port power consumption monitoring
- ▶ Smart feature for PD on/off, PD detection, power level, PD status and power feeding priority
- ▶ Circuit protection prevents power interference between ports
- ▶ Supports per port PoE state setting
- ▶ Supports per port power priority setting
- ▶ Endpoint with 48VDC power through RJ45 pin 1, 2, 3, 6
- ▶ 65 or 130 watts of total power

#### EMI/SAFETY COMPLIANCE:

FCC Part 15 Class A and CE Mark Approval

#### NETWORK CABLE CONNECTORS

RJ45 shielded female ports

- ▶ 10/100Mbps: CAT5 UTP or better
- ▶ MM and SM with LC connectors

#### POWER SUPPLY:

##### Input Voltage

- ▶ 100 to 240 VAC, 50 to 60Hz

#### OPERATING ENVIRONMENT:

##### Ambient Temperature:

- ▶ 32° to 104°F (0° to 40°C)

##### Storage:

- ▶ 68° to 158°F (20° to 70°C)

##### Ambient relative humidity:

- ▶ 5% to 90% (non-condensing)

#### MECHANICAL:

##### Enclosure:

- ▶ Rugged high-strength sheet metal suitable for stand-alone, wall or tabletop mounting
- ▶ Cooling Method: Fan

#### PHYSICAL CHARACTERISTICS:

##### GSM1008-8POE

##### Dimensions:

- ▶ 11 x 10.5 x 2 in (279 x 267 x 51mm)

##### Weight:

- ▶ 6 lbs (2.7kg)

##### GSM2108-8POE

##### Dimensions:

- ▶ 11 x 6.5 x 1.75 in (280 x 164 x 44mm)

##### Weight:

- ▶ 4.8 lbs (1.9kg)

#### WARRANTY:

Limited Lifetime