

## ProSwitch® GSM Managed Gigabit Classroom/ Workgroup Switches

Models: **GSM1009-1SFP**  
**GSM2109-1SFP**

### Key Highlights

- ▶ Eight 10/100/1000Base-TX ports plus one mini GBIC for 1000Base-SX or LX fiber or one 10/100/1000Base-TX port (9 usable ports)
- ▶ Security housing (GSM1009-1SFP):
  - 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 2.25 size
  - Easily mounts to wall or table
- ▶ Management features include:
  - Access via web, Telnet or CLI
  - SNMP
  - RMON
  - IGMP snooping and query mode
  - QoS (port and tag based)
  - CoS (four queues)
  - 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
- ▶ Backed by Waters' limited lifetime warranty
- ▶ Made in the U.S.A.

**WATERS NETWORK SYSTEMS**  
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## GSM1009-1SFP and GSM2109-1SFP Ethernet Switches 10/100/1000Mbps Switches



**GSM1009-1SFP**



**GSM2109-1SFP**

**Waters Network Systems' GSM1009-1SFP and GSM2109-1SFP** switches provide the ultimate in flexibility for small to medium sized workgroups. Both models are compact nine port switches that deliver power, performance and reliability in a cost-effective, space saving design. The GSM1009-1SFP includes Waters' unique rugged security housing which protects the electronics and limits tampering.

Both switch models are designed to be used outside the wiring closet in the end-user workspace. Ideally suited for small workgroups, classrooms or office applications, multiple users can be connected to the LAN with a single drop of cable. The internal power supply assures years of reliable operation. Intelligent network-wide management services are provided while maintaining the simplicity of LAN switching.

Eight 10/100/1000Base-TX ports are available for workstations, printers, VoIP phones or other Ethernet devices. An additional ninth port is available for 10/100/1000Base-TX or 1000Base-SX or LX fiber connectivity. This design provides the ultimate in flexibility for both copper and fiber-based LANs.

### Features and Benefits

- **802.1x support** for user authentications. RADUIS server provides four conditions: reject, accept, authorize or disable.
- **QoS/CoS support.** Four queues with weight round ratio High, Mid-High, Mid-Low and Low are supported. 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. The switches 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 different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance. The switches support 802.1Q Tagged VLAN, Protocol VLAN, GVRP supported up to 256 groups.



## GSM1009-1SFP and GSM2109-1SFP Ethernet Switch

### ORDERING INFORMATION

| Model  | Description   |
|--|---|
| <b>Managed Ethernet switch with internal power supply and classroom/workgroup security housing</b> |   |
| GSM1009-1SFP   | 9 port managed switch with 8 10/100/1000Base-TX RJ45 ports plus one mini GBIC slot for 1000Base-SX or LX fiber or one 10/100/1000Base-TX port. Includes classroom/workgroup security housing. |
| <b>Managed Ethernet switch with internal power supply</b>  |   |
| GSM2109-1SFP   | 9 port managed switch with 8 10/100/1000Base-TX RJ45 ports plus one mini GBIC slot for 1000Base-SX or LX fiber or one 10/100/1000Base-TX port.  |
| <b>SFP Fiber Modules</b>   |   |
| 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
  - ▶ Bandwidth up to 18Gbps
  - ▶ System throughput up to 26.7Mbps (64bytes packet length)
- Memory Buffer Size
  - ▶ 1Mb
- Performance
  - ▶ Non-blocking wire speed

#### MANAGEMENT FEATURES:

- ▶ Web-based, Telnet and CLI
- ▶ SNMP
- ▶ SNMP IP security (supports 4 IP accounts)
- ▶ RMON
- ▶ Port setting for duplex and speed
- ▶ Port trunking (3 groups)
- ▶ Port based and tagged VLANs (up to 256)
- ▶ QoS
- ▶ IGMP (Supports 256 IGMP groups and IGMP query)
- ▶ GVRP (256 groups)
- ▶ Port Security (supports ingress and egress MAC address security, 25 MAC address per port, port MAC address number limiting, 50 MAC addresses per port)
- ▶ Port mirroring (supports 3 mirroring types: RX, TX and both packet)
- ▶ Broadcast storm
- ▶ Spanning Tree
- ▶ SMTP - 3 mail accounts
- ▶ System Log (1000 records)
- ▶ DHCP client / relay
- ▶ SNTP (supports RFC2030 simple network time protocol)

#### NETWORK STANDARDS:

- ▶ IEEE 802.3
- ▶ IEEE 802.3u
- ▶ IEEE 802.3z
- ▶ IEEE 802.3x
- ▶ IEEE 802.3ab
- ▶ IEEE 802.3ad
- ▶ IEEE 802.1d
- ▶ IEEE 802.1s
- ▶ IEEE 802.1w
- ▶ IEEE 802.1p
- ▶ IEEE 802.1q
- ▶ IEEE 802.1x

#### EMI/SAFETY COMPLIANCE:

FCC Class A, CE, UL cUL  
CE/EN60950

#### NETWORK CABLE CONNECTORS

- RJ45 shielded female ports
- ▶ 10/100Mbps: CAT5 UTP or better
  - ▶ Multimode and singlemode with LC connectors

#### POWER SUPPLY:

- Input Voltage
- ▶ 90 to 240 VAC, 50 to 60Hz
- Power Consumption
- ▶ 10 watts maximum

#### OPERATING ENVIRONMENT:

- Ambient Temperature:
- ▶ 32° to 140°F (0° to 60°C)
- Storage:
- ▶ 14° to 158°F (-10° 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: Internal fan

#### PHYSICAL CHARACTERISTICS:

- Dimensions (GSM1009-1SFP):
- ▶ 11 x 10.5 x 2.25 in (279 x 267x 57mm)
- Weight:
- ▶ 3.7 lbs (1.68kg)
- Dimensions (GSM2109):
- ▶ 8.5 x 5.5 x 1.75 in (216 x 140 x 45mm)
- Weight:
- ▶ 2 lbs (1.68kg)

#### WARRANTY:

Limited Lifetime