



ProSwitch® Secure Classroom/Workgroup Switches

Models: **MS1008-4G**
PSX1008-4G

Key Highlights

- ▶ Managed 10-port switch with 8 10/100 Base-TX ports and two dual media Gigabit ports (10 usable ports)
- ▶ MS1008-4G 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
- ▶ 1008-4G management features include:
 - Access via web, Telnet or CLI
 - LLDP
 - IGMP
 - DHCP
 - QoS
 - VLANs
 - GVRP
 - Port mirroring
 - Flow control
 - Spanning Tree
 - 802.3ad Trunk with LACP
 - SNMP
 - RMON
 - 802.1x Network Security
 - TFTP Firmware Upgrade
- ▶ Backed by Waters' limited lifetime warranty

WATERS NETWORK SYSTEMS
www.watersnet.com

Corporate Headquarters 7401 Metro Blvd., Suite 560 Edina, MN 55439 Toll Free: 800.862.3894 Phone: 952.831.5604 Fax: 952.831.5605	Manufacturing 945 37th Avenue, NW, Rochester, MN 55901 Toll Free: 800.328.2275 Phone: 507.285.1951 Fax: 507.285.1952
---	---

MS1008-4G and PSX1008-4G Ethernet Switches 10/100/1000Mbps Switches



PSX1008-4G
(without security housing)

MS1008-4G with security housing

Waters Network Systems' MS1008-4G and PSX1008-4G switches provide the ultimate in flexibility for small to medium sized workgroups. Both models are compact 10 port switches that deliver power, performance and reliability in a cost-effective, space saving design. The MS1008-4G 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, the 1008-4G models allow multiple users to attach to a single drop of cable. The internal power supply assures years of reliable operation.

Flexibility

The 1008-4G models provide eight 10/100Base-TX copper ports plus two additional 10/100/1000Base-TX ports and two mini GBIC slots which accept 1000Base-SX or LX SFP modules for a total of ten usable ports. The dual media ports make the 1008-4G an ideal solution for future migration from existing Fast Ethernet to Gigabit speeds.

Features and Benefits

- **802.1p Class of Service (QoS).** Four priority levels are available to provide the ability to customize the treatment of specific classes of data for better control. The QoS function allows you to prioritize types of data such as voice and video. QoS provides a means to control attributes such as error rates, lost packet rates, throughput, and delay.
- **802.1x Access control for improved network security.** The 1008-4G 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.
- **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. The 1008-4G supports 802.1Q Tagged and Port VLANs, GVRP supported VLAN ID with up to 256 groups.
- **Power savings features.** The 1008-4G delivers 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.



MS and PSX1008-4G Ethernet Switches

ORDERING INFORMATION

Model	Description
MS1008-4G	10-port managed switch with 8 10/100Base-TX RJ45 ports plus 2 10/100/1000Base-TX RJ45 ports and 2 mini GBIC slots for 1000Base-SX or LX SFP fiber modules. Includes internal power supply and classroom/workgroup security housing.
PSX1008-4G	10-port managed switch with 8 10/100Base-TX RJ45 ports plus 2 10/100/1000Base-TX RJ45 ports and 2 mini GBIC slots for 1000Base-SX or LX SFP fiber modules. Includes internal power supply.
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
- Maximum Packet Buffer
 - ▶ 5.8Gbps
- Packet Buffers
 - ▶ 38K
- Performance
 - ▶ Non-blocking wire speed

MANAGEMENT FEATURES:

- ▶ Web-based, Telnet and console
- ▶ SNMP
- ▶ Link Layer Discovery Protocol (LLDP) support
- ▶ Port setting for duplex and speed
- ▶ Port trunking (3 groups)
- ▶ Port based and tagged VLANs (up to 256)
- ▶ Link Layer Discovery Protocol (LLDP) support
- ▶ Virtual Stacking Management (VSM)
- ▶ QoS (4 traffic classifications)
- ▶ IGMP
- ▶ DHCP
- ▶ GVRP
- ▶ Port mirroring
- ▶ Broadcast storm
- ▶ Spanning tree
- ▶ Rapid spanning tree
- ▶ 802.1x Network Security
- ▶ Firmware upgrade

NETWORK STANDARDS:

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

EMI/SAFETY COMPLIANCE:

FCC Class A, CE, Part 15

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
- Power Consumption:
 - ▶ 10 watts maximum

OPERATING ENVIRONMENT:

- Ambient Temperature:
 - ▶ 32° to 140°F (0° to 60°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:

- MS1008-4G
 - Dimensions:
 - ▶ 11 x 10.5 x 2 in (279 x 267 x 51mm)
 - Weight:
 - ▶ 5 lbs (2.3kg)
- PSX1008-4G
 - Dimensions:
 - ▶ 8.5 x 5.5 x 1.75 in (217 x 140 x 43mm)
 - Weight:
 - ▶ 3.7 lbs (1.68kg)

WARRANTY:

Limited Lifetime