



## ProSwitch® GSM Mangaed Modular Gigabit Switch

Model: GSM2824

### Key Highlights

- ▶ 24-port switch with 8 10/100/1000Base-TX ports plus 16 mini GBIC slots for 1000Base-SX and LX fiber
- ▶ Combine copper and fiber Gigabit ports in the same switch
- ▶ Add fiber SFPs as you need them
- ▶ Access management functions via the Web, CLI or Telnet
- ▶ Broadcast storm control
- ▶ 802.3x flow control
- ▶ Management functions include:
  - GVRP/GARP
  - IGMP snooping
  - STP/RSTP (802.1d/w/1s)
  - LACP
  - SNMP v1, v2c
  - Enterprise MIB
  - RMON
  - QoS
  - Port mirroring
  - VLANs
  - 802.3ad Port Trunking
- ▶ Rack mountable
- ▶ Backed by Waters' limited lifetime warranty

## GSM2824 Ethernet Switch 10/100/1000Mbps Switch



**GSM2824 switch with 8  
10/100/1000Base-TX ports and 16  
1000Base-SX/LX ports**

**Waters Network Systems' GSM2824** provide up to 24 ports of 1000Mbps for your wiring closet requirements. The GSM-2824 has 8 fixed ports of 10/100/1000Base-TX along with 16 mini GBIC slots for 1000Base-SX or LX SFP fiber. Extend your network using singlemode up to 30km.

### Features and Benefits

- **Dual media for flexible fiber connectivity.** Eight 10/100/1000Base-TX ports are standard in the GSM2824. The GSM2824 can accomdate up to 16 additional 1000Base-SX or LX Gigabit fiber modules in either short, medium or long haul fiber. The GSM2824 provides maximum LAN flexibility by allowing you to customize the switch to meet your exact connectivity requirements.
- **QoS supports layer 4 classification.** In addition to 802.1p Priority Queue support, the GSM2824 also supports programmable higher layer classification and prioritization used to enable enhanced QoS for real time applications based on information passed from Layer 2 to Layer 4 such as VoIP.
- **Port mirroring helps monitor network.** Port mirroring forwards a copy of each packet from one port to another port so the packet can be examined. Port mirroring is a useful diagnostic tool for the network administrator. This function helps track network errors or abnormal packet transmission without interrupting the flow of data.
- **Q-in-Q VLAN for performance and security.** VLAN is 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 switch supports advanced VLAN techniques such as 802.1Q.
- **802.3ad LACP for Bandwidth Aggregation.** Combine the Gigabit ports together to create a multi-link load-sharing trunk. Up to 12 Gigabit ports can be set up per trunk for bandwidth up to 24Gbps. All traffic is aggregated based on MAC addresses, thus balancing the traffic load. The switch supports up to eight trunking groups. Port trunks are useful for switch-to-switch cascading, providing very high full-duplex speeds.
- **802.1x Access control for improved network security.** The GSM2824 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.
- **Rapid Spanning Tree.** For mission critical environments with multiple switches supporting STP, you can configure the switches with a redundant backup bridge path. This feature assures the timely and accurate delivery of all data, voice and video packets.

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## GSM2824 FlexPort Ethernet Switch

### ORDERING INFORMATION

Model	Description
<b>10/100/1000Mbps Managed Ethernet Switch</b>	
GSM-2824	24 port managed switch with 8 10/100/1000Base-TX RJ45 ports plus 16 slots for 1000Base-SX or LX fiber
<b>SFP Fiber Modules for GSM-2824</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
  - ▶ All Models: 8K
- Switching Mode
  - ▶ Store-and-forward
- Memory Buffer Size
  - ▶ 400KB
  - ▶ Jumbo frame support up to 9K
- Performance
  - ▶ Non-blocking wiring speed
  - ▶ Auto negotiation
  - ▶ Auto-MDIX
  - ▶ Back pressure flow control for half duplex
  - ▶ Flow control for full duplex

#### MANAGEMENT FUNCTIONS:

- ▶ Web-based, Console and SNMP
- ▶ Port setting for duplex and speed
- ▶ Port trunking (8 groups)
- ▶ Port based and tagged VLANs (up to 256)
- ▶ IGMP snooping
- ▶ 802.1x access control
- ▶ GVRP/GARP
- ▶ Port mirroring
- ▶ Broadcast/multicast storm suppression
- ▶ QoS
- ▶ LACP
- ▶ STP/RSTP
- ▶ Enterprise MIB
- ▶ RFC1213MIB (MIB-II)
- ▶ RFC1757 RMON MIB
- ▶ RFC1493 Bridge MIB
- ▶ RFC1643 Ethernet MIB
- ▶ RMON
- ▶ Q-in-Q Subscriber Aggregation
- ▶ Bandwidth control

#### NETWORK STANDARDS:

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

#### EMI/SAFETY COMPLIANCE:

FCC Part 15 Class A & CE Mark Approval

#### NETWORK CABLE CONNECTORS:

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

#### POWER SUPPLY:

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

#### OPERATING ENVIRONMENT:

- Ambient Temperature:
  - ▶ 32° to 122°F (0° to 50°C)
- Ambient Humidity:
  - ▶ 5% to 90% (non-condensing)

#### MECHANICAL:

- Enclosure:
  - ▶ Rack mount
  - ▶ Cooling Method: Fan cooled

#### PHYSICAL CHARACTERISTICS:

- Dimensions
  - ▶ 8.23 x 17.40 x 1.73 in
  - ▶ 209 x 442 x 44mm
- Weight:
  - ▶ 9.26lbs (4.2kg)

#### WARRANTY:

Limited Lifetime      Made in U.S.A