

# TigerSwitch 10/100/1000

Stackable Fast Ethernet Switch  
100BASE-TX/FX, 1000BASE-SX Ports



## From SMC's Tiger line of feature-rich workgroup LAN solutions

SMC's TigerSwitch™ 10/100/1000, SMC6912M/24M, is a new-generation switch with a hefty 4 Gbps backplane that supports stacking up to four units. It includes 12/24 fixed auto negotiating 10BASE-T /100BASE-TX ports on the front-panel, and three slots on the rear panel for optional modules. These include dual-port 100BASE-FX or single-port 1000BASE-SX media modules (allowing up to two FX or SX modules on a stand-alone unit), a stacking module, and a management module. With a host of advanced features and comprehensive management capabilities, the TigerSwitch stack provides a potent solution for your network backbone.

This TigerSwitch also comes fully-loaded with advanced performance-enhancing features. Port-based and tagged VLANs, plus support for automatic GVRP VLAN registration provide traffic security and efficient use of network bandwidth. QoS priority queueing ensures the minimum delay for real-time multimedia data across the network. Flow control eliminates the loss of packets due to bottlenecks caused by port saturation. And broadcast storm control prevents broadcast traffic storms from engulfing the network.

The switch's integrated SNMP management agent supports 4-group RMON with in-band and out-of-band management. What's more, the Web-based interface allows the TigerSwitch to be managed any time from anywhere, removing the limitations and costs associated with a fixed management station.

## Features and Benefits

### Outstanding Performance

- 12/24 auto-sensing 100BASE-TX ports
- 4.4 Gbps of aggregate bandwidth
- 4 Gbps backplane for stack
- Store-and-forward switching maintains a clean data stream, minimizing packet loss
- Switching database holds up to 12K MAC addresses
- QoS support for two levels of priority, with weighted fair queueing
- Half- and full-duplex flow control eliminates lost packets due to port saturation
- Broadcast storm control prevents broadcast traffic storms from engulfing the network

### Flexible

- Optional 100BASE-FX or 1000BASE-SX modules, stack module, and agent module
- VLANs based on frame tags or ports for maximum security and bandwidth efficiency
- VLAN support for priority tagging and automatic group registration (GVRP)
- IGMP Multicast Filtering (next phase)
- Up to three port trunks per switch
- Port mirroring for non-intrusive analysis
- Rack-mountable (standard 19" rack)

### Manageable

- Web management agent for switch configuration access anytime, anywhere
- In-band access via EliteView or any other SNMP management application, or Telnet
- Out-of-band via RS-232 console port
- SLIP access to console port
- One agent module manages the whole stack, other modules serve as backup
- 4-group RMON (Statistics,History,Alarm,Event)
- Spanning Tree Protocol allows the creation of redundant data paths

### Compatible

- IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.1d, 802.1Q, 802.1ac, 802.1p,
- ISO/IEC 8802-3

### Reliability

- Three-year warranty
- Free pre and post purchase technical support

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## Features and Benefits

### Ports

- 12/24 10BASE-T/100BASE-TX
- 2 slots for optional dual-port 100BASE-FX or single port 1000BASE-SX modules, or a stacking module

### Network Interface

- 10BASE-T
  - RJ-45 (UTP cable; Categories 3, 4, 5)
- 100BASE-TX
  - RJ-45 (UTP cable; Category 5)
- 100BASE-FX \*
- 1000BASE-SX \*
  - \* SC connector (multimode fiber cable; 62.5/125 or 50/125 microns)

### Stack Interface

- Connects up to 4 units (with resilient link)
- 2 Gbps, full duplex, uplink/downlink ports
- 4 Gbps backplane bandwidth (for stack)

### Buffer Architecture

- 126 Kbytes per 10/100 Mbps ports
- 2 Mbyte per 1000 Mbps ports

### Forwarding Mode

- Store-and-forward

### Aggregate Bandwidth

- 4.4 Gbps

### Switching Database

- 12K MAC address entries

### In-Band Management

- Web-based, SNMP and Telnet

### Out-of-Band Management

- RS-232 Console port

### VLAN Support

- Up to 16 groups
- Port-based or 802.1Q VLAN tagging
- GVRP for dynamic VLAN registration

### Size

- 17.37 x 11.22 x 2.53 in (44.0 x 28.5 x 6.4 cm)

### Weight (without modules)

- SMC6912M: 16.42 lbs (7.45 kg)
- SMC6924M: 16.57 lbs (7.52 kg)

### Temperature

- Operating: 32 to 122°F (0 to 50°C)
- Storage: -40 to 158°F (-40 to 70°C)

### Humidity

- 5% to 95% (non-condensing)

### Power Supply

- Universal AC input; 100 to 240 VAC, 50/60 Hz

### Power Consumption

- 80 Watts

### Heat Dissipation

- 273 BTU/hr

### Maximum Current

- SMC6912M: 0.58A@110VAC, 0.37A@240VAC
- SMC6924M: 0.80A@110VAC, 0.50A@240VAC

### Standards

- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3z Gigabit Ethernet
- IEEE 802.3x Full-Duplex Flow Control
- IEEE 802.1d Spanning Tree
- IEEE 802.1Q VLAN Tagging
- IEEE 802.1p Priority Tagging
- SNMP (RFC 1157)
- RMON (RFC 1757 groups 1, 2, 3 and 9)
- MIB II (RFC 1213)
- Ethernet-Like MIB (RFC 1643)
- Bridge MIB (RFC 1493)

### EMC/Safety Compliances

- CE Mark
- Emissions
  - FCC Class A
  - Industry Canada Class A
  - EN55022 (CISPR 22) Class A
  - VCCI Class A
  - C-Tick - AS/NZS 3548 (1995) Class A
- Immunity
  - IEC 1000-4-2/3/4/6
- Safety
  - CSA/NRTL (CSA 22.2.950 & UL 1950)
  - TUV/GS EN60950, CB Report

### Warranty

- Three years

## SMC Offices Europe

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### World Wide Web

<http://www.smc-europe.com/>

Product	Order No.	Description
TigerSwitch 10/100/1000	SMC6912M	12-port Fast Ethernet switch with two expansion slots
TigerSwitch 10/100/1000	SMC6924M	24-port Fast Ethernet switch with two expansion slots
Optional Slide-in Module	SMC6900FSC	Two 100BASE-FX ports with SC connectors
Optional Slide-in Module	SMC6900FST	SMC6900FSC with SC-ST Converter
Optional Slide-in Module*	SMC6900G	Single 1000BASE-SX port with SC connector
*SC-ST Converter	115511-005	SC to ST plug converter for fiber optic module
Redundant Power Unit	SMCRPU125W	Redundant Power Unit with cables, supports one device
EliteView Network Management		Software Free Windows-based network management software

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network focused