



Managed Switch

SMC6248M

TigerStack™ 10/100

Stackable 48-port 10/100 Managed switch with 2 gigabit combo ports and 2 stacking ports



OVERVIEW

SMC Networks' SMC6248M is a high-performance, managed, stackable Layer 2 switch that provides an ideal solution for workgroups and departments. The (48) 10/100Mbps Fast Ethernet ports allow desktops to access network resources through flexible 4 Gig uplinks. The entire stack can be managed via a single IP address for simplified network administration.

Utilizing an 17.6Gbps switch capacity and support for 8,000 MAC addresses, the SMC6248M is a wire-speed, high performance switch ideal for workgroups or departments. The SMC6248M supports port trunking with up to 6 trunk groups with 2 to 8 ports in each group per stack. Port trunking enables business users to increase availability and aggregated bandwidth between servers and/or other switches, optimizing the transport of business critical data. The SMC6248M uses 1 Gbps ports to interconnect up to 8 units within a stack.

By supporting the IEEE approved specifications, the SMC6248M leverages your existing investment in a multi-vendor environment, while maximizing compatibility of mission critical features such as, Spanning Tree (802.1d), QoS (802.1p/DiffServ/TCP&UDP port number), VLANs (802.1Q), and network management (SNMP/RMON/BOOTP/Telnet/Web). The SMC6248M robust support of standards-based network management protocols (SNMP/RMON/BOOTP/Telnet/Web/TFTP) and port mirroring enables the SMC6248M to be easily integrated into many third-party network management packages. The SMC6248M also supports redundant power when combined with the SMC-RPU14 Redundant power Supply unit.

The SMC6248M brings advanced enterprise functions to a more affordable level while supporting advanced features: L2/L3/L4 (QoS), 802.1x (Port-based Authentication), IGMP snooping, 802.1w (Rapid Spanning Tree), , 802.3ad (Link Aggregation), and 802.1q (VLANs). L2/L3/L4 (ACLs) can be configured based on: Protocol type, 802.1p, DSCP, MAC Address, IP Address, and/or TCP/UDP Port Number. These features facilitate the deployment of enterprise applications such as: VOIP, streaming media, and multicast content delivery (IP video conferencing and software deployment).

FEATURES	BENEFITS
High-port density with gigabit and stacking capability	Supports up to 48 auto-MDIX 10/100 ports
Full wire-speed switching performance	Non-blocking 17.6Gbps switch fabric for maximum switching performance
Priority queuing	Four levels of priority, with weighted fair queuing, ensures smooth transmission of vital data
VLAN with GVRP	Supports VLANs based on tags, ports, or protocol, plus support for automatic GVRP LAN registration for maximum security and bandwidth efficiency.
IGMP	IGMP allows multicast traffic transmission to registered users only.
LACP for link aggregation	Port trunking group links between switches, increases bandwidth for dedicated link
Port mirroring	Useful for diagnosing and monitoring network problems
Port and system security	Security control and authentication such as SSH, SSL, HTTP, 802.1x to ensure a secure network.
SNMP and RMON	

PORTS

- SMC6248M: 48 Auto-MDIX 10BASE-T /100BASE-TX RJ-45 ports
- 2 Combo (RJ-45/SFP) ports
- 2 Stacking ports
- Built-in Network Management

NETWORK INTERFACE

- 10BASE-T: RJ-45 UTP CAT. 3,4,5
- 100BASE-TX: RJ-45 UTP Cat. 5
- 1000BASE-SX: SC connector
- 1000BASE-LX: SC connector
- 1000BASE-T: RJ-45 connector
- Multimode fiber cable; 62.5/125 or 50/125 microns
- Singlemode fiber cable: 9/125 micron

STACK INTERFACE

- 2Gbps, full duplex, RJ-45

SWITCH FABRIC

- 17.6Gbps
- 13Mpps

BUFFER ARCHITECTURE

- 4Mb shared

SWITCHING DATABASE

- 8K MAC address entries

LED

- System: Power, Uplink, Diag, Stack
- Port:Link/activity

WEIGHT

- 6.0Lb
- 2.7 Kg

DIMENSIONS

- 440 x 324 x 43mm
- 17.37 x 12.76 x 1.7in

TEMPERATURE

- Temperature : IEC 68-2-14
- 0 to 50° degrees (Standard Operating)
- -40 to 70° degrees (Non-operating)

HUMIDITY

- 10% to 90% (Non-condensing)
- AC Input
- 100 to 240V, 47 to 63 Hz

POWER SUPPLY

- Internal, auto-ranging transformer: 100 to 240VAC, 50 to 60 Hz

POWER CONSUMPTION

- 35W

MAXIMUM CURRENT

- 3.0A@110 VAC
- 2.0A@240 VAC

SWITCH FEATURES

- Spanning Tree Protocol
- Forwarding Mode
 - Store-and-forward
- VLAN Support
 - Up to 255 groups; port-based or with 802.1Q
 - VLAN tagging, GVRP for automatic VLAN learning
- Quality of Service
 - Supports four levels of priority with flexible classification and prioritization
- MultiLink Trunking (LACP)
- Port Mirroring
- TACACS+ client authentication
- HTTPS and SSL
- SSH for Telnet sessions
- Rate limiting
- Static port security
- Jumbo Frame support

MANAGEMENT FEATURES

- In-Band Management
 - Telnet, SLIP, Web-based HTTP, or SNMP manager
- Out-of-Band Management
 - RS-232 DB-9 console port
- Software Loading
 - TFTP in-band or Xmodem out-of-band MIB Support
 - MIB II (RFC 1213), Bridging MIB (RFC 1493), Ethernet-Like MIB (RFC 1643), RMON MIB (RFC 1757), SMC's private MIB(standard text from the other datasheets on the SFP transceivers)

STANDARDS

- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet
- IEEE802.1D Spanning Tree Protocol and traffic priorities
- IEEE802.1p Priority tags
- IEEE802.1Q VLAN
- IEEE802.1ac VLAN tagging
- IEEE802.1ad Link aggregation control protocol
- IEEE80.1w Rapid Spanning Tree

ISO

- IEC8802.3
- SNMP (RFC 1157), RMON (RFC 1757), ARP (RFC826), IEGMP (RFC1157), IGMP (RFC1112), MIB II (RFC 1213), Ethernet-like MIB (RFC1643)
- Bridge MIB (RFC 1493)

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

- UL
- CSA/NRTL (CSA22.2.2.950 &UL 1950)
- En60950 (TUV/GS)

Warranty

- Limited lifetime

SLIDE-IN TRANSCEIVERS

MODEL

- SMCBGSCLX1
- 1000BASE-SX
- LC Multimode fiber
- Range -220m for 62.5/125m, 850nm
- Range 550m for 50/125m, 850nm

MODEL

- SMCBGLLCX1
- 1000BASE-LX
- LC Singlemode fiber
- Range 10Km for 9/125m, 1310nm

MODEL

- SMCBGZLCX1
- 1000BASE-ZX
- LC single mode fiber
- Range 70 to 100Km for 9/125, 1310nm

Contact

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