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 SMCRPUI4 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

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

SMC6248M

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
- 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
- 2.7Kg

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
- IEEE802.1w Rapid Spanning Tree

ISO
- IEC8802.3
- SNMP (RFC 1157), RMON (RFC 1757), ARP (RFC826), IEGMP (RFC1112), 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
- 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
- SMCBGSLCX1
  - 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

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