SMC6824M
TigerSwitch™ III Stackable 24-port 10/100 Managed switch with 2 slots for media expansion

OVERVIEW

SMC's SMC6824M is a new generation of high performance switch that has a non-blocking switch fabric of 9.6Gbps. With 24 fixed auto-MDIX 10/100 ports and two slots in the front panel for optional modules, it can be expanded up to 26 ports per switch, with a mix and match of 100BASE-FX or 1000BASE-X modules. The TigerStack III 10/100 can be stacked up to 8 units high with the stacking kit, so that up to 192 ports can be managed by single IP. The TigerStack III 10/100 comes with advance features features, including port or protocol based and tagged VLANs, plus support for automatic GVRP VLAN registration provides traffic security and efficient use of network bandwidth. QoS priority queuing ensures the minimum delay for real-time multimedia data across the network. IGMP snooping is also onboard to prevent flooding of IP multicast traffic, with LACP to facilitate linking aggregation. Security features are also included in the switch, which includes RADIUS, SSH, SSL, and HTTPS that keeps the network and the users secure from tampering by unauthorized users, and RMON traps to alert the presence of intruders in system.

The TigerStack III 10/100 is backed by a comprehensive limited lifetime warranty. With powerful switching performance and advance network management features, the SMC6824M is the ideal solution for today's networking needs.

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<th>FEATURES</th>
<th>BENEFITS</th>
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<td>High-port density with gigabit and 100BASE-FX options.</td>
<td>Supports up to 24 auto-MDIX 10/100 ports, 2 1000Mbps or 100BASE-FX ports – ultimate solution in flexibility for future expansion</td>
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<td>Full wire-speed switching performance</td>
<td>Non-blocking 8.8Gbps switch fabric for maximum switching performance</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 and system security</td>
<td>Security control and authentication such as SSH 2.0, SSL, HTTPS, 802.1x to ensure a secure network.</td>
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TECHNICAL SPECIFICATIONS

SMC6824M

PORTS
- SMC6824M: 24 Auto-MDIX 10BASE-T / 100BASE-TX RJ-45 ports 2 slots for expansion modules
- Built-in Network Management

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

LEDs
- System: Power, RPU, Diag, Stack
- Port: Link/activity, Duplex
- Module: M1/M2 connection

SWITCHING DATABASE
- 8K MAC address entries

SWITCH FABRIC
- 9.6Gbps

STACK INTERFACE
- 10Gbps, full duplex, USB
- Buffer Architecture: 32Mb shared

WEIGHT
- 13 oz / 6 lbs

TEMPERATURE
- Operating: 0 °C to 50 °C / 32 °F to 122 °F
- Relative humidity: 15 to 95% @ 40 °C (104 °F), noncondensing
- Storage: -40 °C to 70 °C / -40 °F to 158 °F
- Relative humidity: 90% @ 65 °C / 149 °F, noncondensing

WARRANTY
- Limited Lifetime

DIMENSIONS
- 17.32 x 12.8 x 1.69 in
- 439.93 x 325.12 x 42.93 mm

HUMIDITY
- Operating: 5% to 95%

AC INPUT
- 100 to 240V, 47 to 63 Hz

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

POWER CONSUMPTION
- 60W Max

HEAT DISSIPATION
- 205 BTU/hr

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

MTBF
- 8 years

SWITCH FEATURES
- Spanning Tree Protocol
- Forwarding Mode
- Store-and-forward
- VLAN Support
- Up to 256 groups; port-based or with 802.1Q
- VLAN tagging, GVRP for automatic VLAN learning
- Quality of Service
- Supports four levels of priority
- MultiLink Trunking (LACP)
- Port Mirroring
- TACACS+ client authentication
- HTTPS and SSL
- SSH 2.0 for Telnet sessions
- Rate limiting
- Static port security
- Layer 3/4 Priority mapping

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

RMON SUPPORT
- Groups 1,2,3, 9 (Statistics, History, Alarm, Event)

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
- IEEE802.1s Multiple Spanning Tree (future)

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)

SLIDE-IN MODULES
- 100Base-FX Extender Module
- Models

MODEL
- SMC6824FMSC

PORTS
- 1 100Base-FX

NETWORK INTERFACE
- SC connector, 50/125 or 62.5/125 micron multimode fiber cable

MODEL
- SMC6824FSSC

PORTS
- 1 100BASE-FX

NETWORK INTERFACE
- SC connector
- 1000Base-X Extended Module
- Models

MODEL
- SMC6824GT

PORTS
- 1 slot for GBIC transceiver

NETWORK INTERFACE
- RJ-45 connector

MODEL
- SMC6824GB

PORTS
- 1 slot for GBIC transceiver

NETWORK INTERFACE
- SC connector, 50/125 or 62.5/125 micron multimode fiber cable
- SC connector, 9/125 micron fiber cable

STANDARDS
- 802.3 Gigabit Ethernet

Contact
North America
38 Tesla
Irvine, CA 92618
1-800-SMC-4YOU
24/7 Technical Support

Europe/Africa
Fructuos Gelabert 6-8
08970 Sant Joan Despi
Barcelona, Spain

Check www.smc.com for your local country contact information