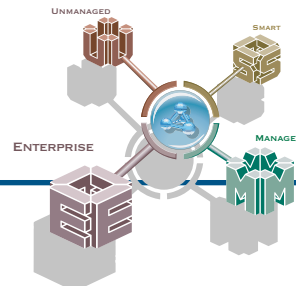# SMC Networks

Enterprise Switch

SMC8824M / SMC8848M
TigerStack II 1000 Stackable 24/48 10/100/1000
Managed Layer 2 Switch with 2 x 10G Uplink slots

UNMANAGED
SMART
ENTERPRISE
MANAGED

OVERVIEW

SMC Networks' TigerStack II 10/100/1000 Switches are the newest in a series of "Next Generation" high performance stackable switches that deliver high scalability, wire-speed Gigabit performance, high availability, 10 Gigabit Ethernet uplinks, and redundant power options. These switches are the first to include both IPv4 and IPv6 Management options enabling future proofed flexibility and maintainability.

The TigerStack II 10/100/1000 SMC8824M/SMC8848M stacks up to 8 units in a stack, providing up to 384 Gigabit ports. A stack can be created with either of the 24 or 48 port switches, providing unprecedented flexibility. It provides up to 48 built-in copper Gigabit ports, including (4) Combo SFP ports supporting either copper links or SFP adapters for easy, flexible connection to fiber-based Gigabit media and a switching capacity of up to 176Gbps. The 2 10G module slots on the rear of the switch provide support for XFP 10G connections. These provide high bandwidth connections to the core of a network and are in additon to the 2 stacking connectors giving high capacity connections to the other units in the stack.

The SMC8824M/SMC8848M switches feature a variety of network management options for both IPv4 and IPv6: console CLI, telnet, web, SNMPv1/v2/v3, RMON, TFTP, Port Mirroring, BootP, and DHCP. It also supports a variety of advanced traffic management options including: 802.1x, Bandwidth Control, Broadcast Storm Control, and support for IGMP Snooping v1/v2.

The SMC8824M/SMC8848M supports Layer 3 and Layer 2 networks by providing RIP v1,v2 and static routing to allow extra flexibility for your ethernet network and a comprehensive L2/L4 feature set. The L2/L4 feature set includes QoS/Cos, VLAN, and security features. It supports 8 priority queues for 802.1p/ToS/DiffServ, with classification and marking based on MAC SA/DA, IP SA/DA, and/or TCP/UDP. Security features include: 802.1x (Port Authentication), port security, and Access Control Lists (ACL) based on MAC address, IP address, and/or TCP/UDP port numbers. It also provides extensive support for GVRP, 802.1q, and a flexible VLAN implementation including port, tagged and protocol based VLANs. The SMC8824M/SMC8848M is the latest example ofSMC's continued commitment to our channel partners and customers to be the industry leader in cost-effective, reliable, high performance, feature-rich switches.

FEATURES	BENEFITS
High-port density and migration protection in a small footprint	Supports 24 or 48*10/100/1000Mbps including 2 stacking ports and 2 optional 10G uplink slots in a 1RU chassis
Advanced Management Support	Introduces IPv6 Management support to enhance the standard IPv4 management interfaces.
Layer 3 support via RIPv1/2 and Static routing	Allows Layer 3 edge networks to be implemented without the need for a hardware upgrade
QoS	Support eight levels of priority, with weighted fair queuing and L2/3/4 IP precedence--ensures smooth transmission of mission critical data
VLAN with GVRP and 802.1v	Support VLANs based on frame tags or ports, plus support for automatic GVRP LAN registration spanning tree per VLAN--provides maximum security and bandwidth efficiency
IGMP Snooping	Only allows IP Multicast traffic transmission to the registered members, resulting bandwidth savings--reduce IP multicast traffic and increase LAN performance
MultiLink Trunking with LACP	Can group links between switches to provide higher bandwidth of up to 16Gbps
Comprehensive security support	Currently supports RADIUS, IEEE802.1x, SSH, SSL,TACACS+, ACL
Redundant Power Supply	Provides backup power in case of power failure
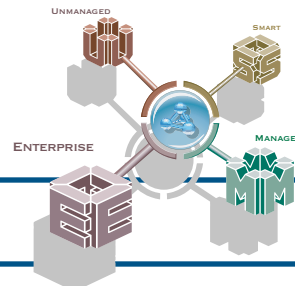
PORTS
- 24/48 10/100/1000BASE-T ports
- 4 Combo SFP ports
- 2 Stacking ports
- 2 10G Module slots

NETWORK INTERFACE
- 10/100/1000 BASE-T ports
- XFP Transceiver slots supporting SR, LR and ER XFP
- Multimode fiber cable; 62.5/125 or 50/125 microns
- Singlemode fiber cable: 9/125 micron

SWITCHING FABRIC
- SMC8824M
  - 128Gbps
  - 95Mpps
- SMC8848M
  - 176Gbps
  - 131Mpps

BUFFER ARCHITECTURE
- SMC8824M
  - 0.75Mbytes
- SMC8848M
  - 1.5Mbytes

SWITCHING DATABASE
- 8K MAC address entries

LED
- System: Stack Master, Stack Link, Module, Power, Diag, RPS
- Port: Link/Activity

WEIGHT
- SMC8824M
  - 5.7Kg (12.6lbs)
- SMC8848M
  - 6.1Kg (13.4lbs)

DIMENSIONS
- 44.0 x 41.5 x 4.4 cm (17.4 x 16.4 x 1.8 in.)

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

HUMIDITY
- Operating: 5% to 95% (non-condensing)

AC INPUT
- 100 to 240 V, 50-60 Hz, 2A

POWER SUPPLY
- Internal, auto-ranging transformer: 100 to 240 VAC, 50 to 60 Hz
- External, supports connection for redundant power supply

POWER CONSUMPTION
- SMC8824M
  - 66 Watts
- SMC8848M
  - 105 Watts

MAXIMUM CURRENT
- 1.6 A @ 100 VAC
- 0.6 A @ 230 VAC

MTBF
- 8 Years

SWITCH FEATURES
- RIPv1/2
- Static routing
- LACP 802.3ad
- VLANs (up to 256)
- GVRP
- 802.1v (Protocol based VLANs)
- Private VLAN support
- Spanning Tree (802.1D, 802.1w, 802.1s)
- Broadcast Storm Control
- Flow Control
- IGMP Snooping (v1,v2)
- IGMP Querying
- Jumbo Frame (up to 9K)
- ACL's
- 802.1x
- RADIUS
- TACACS+
- Static Port Security
- DNS

QUALITY OF SERVICE
- Supports 8 levels of priority with flexible classification and prioritization
- Per port bandwidth management

DIAGNOSTIC FEATURES
- Port Mirroring
- Remote Ping
- Event/Error Log
- SMTP

MANAGEMENT FEATURES
- In-Band Features
- IPv6 and IPv4 support
- Telnet and SSH
- HTTP and HTTPS
- SNMP (v1,v2c,v3)
- Out-of-Band Management
- RS-232 Console port
- Software upgrade
- TFTP or XModem
- Dual Firmware Images
- Configuration Download/Upload

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

STANDARDS
- IEEE 802.3-2002 Ethernet, Fast Ethernet, Gigabit Ethernet
- IEEE 802.3ae 10 Gigabit Ethernet
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1w Rapid Spanning Tree Protocol
- IEEE 802.1s Multiple Spanning Tree Protocol
- IEEE 802.1Q Virtual LAN
- IEEE 802.1p Priority tags
- IEEE 802.3ad Link aggregation control protocol
- IEEE 802.1v Protocol Based Vlans

COMPLIANCE
ISO
- IEC8802.3

CE MARK
EMISSIONS
- FCC Class A
- Industry Canada Class A
- EN55022 (CISPR 22) Class A
- EN 61000-3-2/3
- VCCI Class A
- C-Tick - AS/NZS 3548 (1995) Class A

IMMUNITY
- EN 61000-4-2/3/4/5/6/8/11

SAFETY
- CSA/CUS (CSA 22.2. NO 60950-1 & UL60950-1)
- TÜV/GS (EN60950-1)
- CB (IEC60950-1)

WARRANTY
- Limited lifetime

SUPPORTED MODULES AND CABLES

STACKING CABLES
- SMC8700S-30
- 30CM STACKING CABLE
- SMC8700S-130
- 130CM STACKING CABLE

SMCXFPMOD MODULE
- 1 Port XFP module

SLIDE-IN TRANSCEIVERS FOR 10G MODULE

SMC10GXFP-SR
- 10G SR XFP Transcevier, 300m, Multimode fiber

SMC10GXFP-LR
- 10G LR XFP Transceiver, 10km, Single mode fiber

SMC10GXFP-ER
- 10G ER XFP Transcevier, 40Km

SLIDE-IN TRANSCEIVERS FOR COMBO PORTS

SMC1GSFP-SX
- 1G SX SFP Transciever, 550M, Multimode fiber

SMC1GSFP-LX
- 1G LX SFP Transciever, 10Km, Singlemode fiber

SMC1GSFP-ZX
- 1G LH SFP Transciever, 70Km Singlemode fiber

Contact

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