



## SMC8824M / SMC8848M

TigerStack II 1000 Stackable 24/48 10/100/1000  
Managed Layer 3 Switch with 2 x 10G Uplink slots

### OVERVIEW

SMC Networks' TigerStack II 10/100/1000 Switches are the newest in a series of SMB 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 4 in a stack, providing up to 192 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 addition to the 2 stacking connectors giving high capacity connections to the other units in the stack.

The SMC8824M/SMC8848M is the latest example of SMC's continued commitment to our channel partners and customers to be the industry leader in cost-effective, reliable, high performance, feature-rich switches.

### KEY FEATURES

#### Layer 3 Routing Support

Advanced edge networks can have the requirement for layer 3 routing and this family of switches is able to offer that support in hardware without additional cost.

#### Flexible Security Features

Security is critical for advanced edge networks. This switch family includes a range of User and Device security functions which will help protect the network. Secure management interfaces for protecting device configuration and secure user access using 802.1x or Private Vlans to prevent unauthorized access.

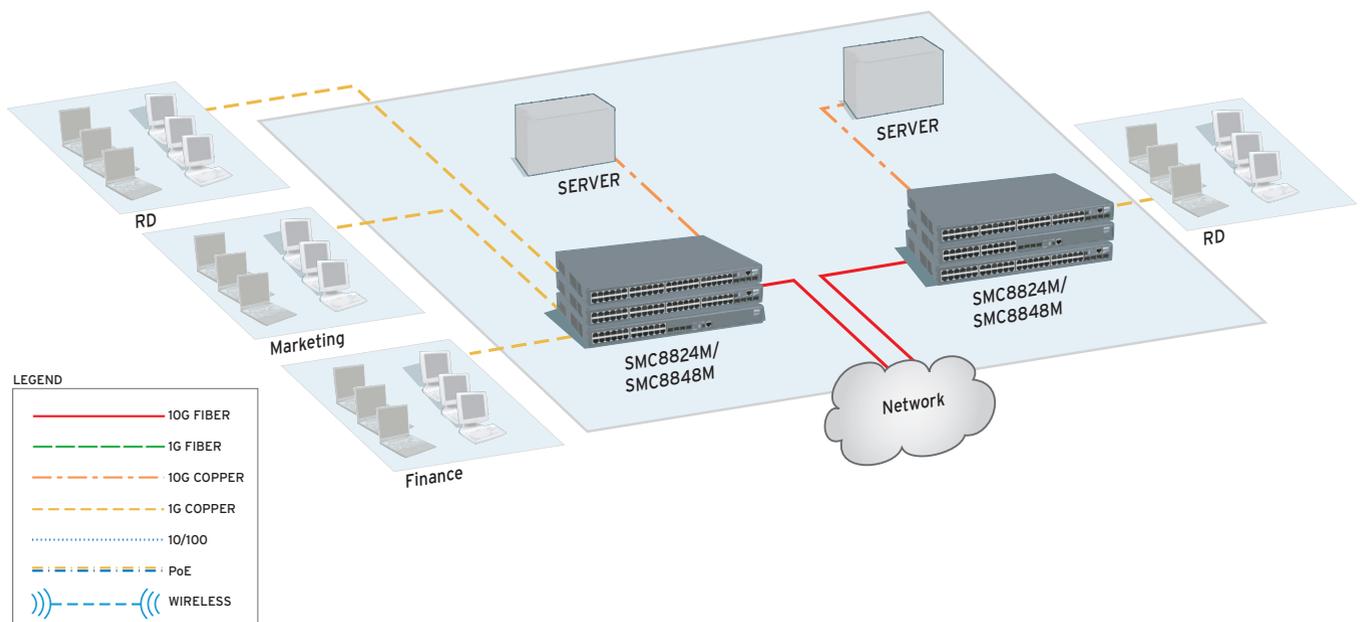
#### Performance and Redundancy

Advanced edge networks are demanding higher performance and reduced down time. SMC is committed to both of these requirements. Stacking switches together in a single wiring closet increases the uplink flexibility in terms of 10G uplinks and redundancy in the event of a device problem. Similarly this switch includes a Redundant Power option to protect against primary power failure.

#### Quality of Service

Networks are supporting many different types of data including voice, video, email, file transfers. Each data type has different characteristics and requirements. The SMC TigerSwitch II switches provide 8 levels of priority in hardware and flexible software to configure the system to address your specific network requirements.

### APPLICATION DIAGRAM



## TECH SPECS - SMC8824M / SMC8848M

### 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
- OSPF
- VRRP
- LACP 802.3ad (up to 32)
- VLANs (up to 4k)
  - 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,v3)
- IGMP Querying
- IGMP Immediate Leave
- Jumbo Frame (up to 9K)
- ACL's
- 802.1x
- RADIUS
- TACACS+
- Static Port Security
- DNS
- QinQ
- LLDP

### QUALITY OF SERVICE

- Supports 8 levels of priority with flexible classification and prioritization
- Per port bandwidth management
- DiffServ

### DIAGNOSTIC FEATURES

- Port Mirroring
- Remote Ping
- Event/Error Log
- SMTP
- SNMP

### 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

- Please check [www.smc.com](http://www.smc.com) for the warranty terms in your country/region

### SUPPORTED MODULES AND CABLES

#### STACKING CABLES

- SMC8700S-30
  - 30cm stacking cable
- SMC8700S-130
  - 130cm stacking cable
- SMC8700S-300
  - 300cm stacking cable

#### SMCXFPMOD MODULE

- 1 Port XFP module

#### SLIDE-IN TRANSCEIVERS FOR 10G MODULE

- SMC10GXFP-SR
  - 10G SR XFP Transceiver, 300m, Multimode fiber
- SMC10GXFP-LR
  - 10G LR XFP Transceiver, 10km, Single mode fiber

#### SLIDE-IN TRANSCEIVERS FOR COMBO PORTS

- SMC1G5FP-SX
  - 1G SX SFP Transceiver, 550M, Multimode fiber
- SMC1G5FP-LX
  - 1G LX SFP Transceiver, 10Km, Singlemode fiber
- SMC1G5FP-ZX
  - 1G LH SFP Transceiver, 70Km Singlemode fiber

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