

SMC8724ML3 / SMC8748ML3

TigerStack 1000™

Stackable 24/48-port 10/100/1000+ optional 10Gigabit uplink L3 Managed Switch



OVERVIEW

SMC Networks' TigerStack1000 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.

The TigerStack1000 SMC8724ML3/SMC8748ML3 stacks up to 8 units in a stack, providing up to 384 Gigabit ports. A stack can be created with either the TigerStack1000 SMC8724ML3 or the TigerStack 1000 SMC8748ML3, providing unprecedented flexibility. It provides 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 156Gbps.

The SMC8724ML3/SMC8748ML3 switches feature a variety of network management options: console CLI, telnet, web, SNMPv1/v2, 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/v3. SMC Networks exclusive SIM technology is also supported. This feature allows up to 32 units of SMC Networks switches to be managed under a single IP, regardless of it's physical environment.

The SMC8724ML3/SMC8748ML3 provides a robust and consistent set of 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 GARP/GVRP, 802.1q, and a flexible VLAN implementation including port, tagged and protocol based VLANs. The SMC8724ML3/SMC8748ML3 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.

| FEATURES | BENEFITS |
|---|---|
| High-port density and migration protection in a small footprint | Supports 24/48*10/100/1000Mbps with optional 10G uplink in an 1RU chassis |
| Advanced Layer 3 Unicast Features | Supports RIPv1,v2 and OSPF to give wirespeed IP routing |
| Advanced Layer 3 Multicast Features | Supports DVMRP and PIM-DM to enable multicast networks |
| 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 802.1s/v | 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, with future upgrade to SNMPv3 |
| Redundant Power Supply | Provides backup power in case of power failure |



TECHNICAL SPECIFICATIONS

SMC8724ML3 / SMC8748ML3

PORTS

- 24/48 RJ-45 10/100/1000 Ports
- 4 Combo Ports (SFP/RJ45)
- 2 Stacking connectors

UPLINKS OPTIONS

- 10G Module slot

STACKING

- 8 units (MAX)

PERFORMANCE

- 24 Port
 - 108Gbps
 - 80Mpps
- 48 Port
 - 156Gbps
 - 115Mpps
- Up to 8K ARP table entries
- Up to 64K Routing table entries
- Up to 256 static IP routes

SWITCHING MODE

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

MAC ADDRESS

- 16K

WARRANTY

- Limited Lifetime

BUFFER SIZE

- 2MB - 24 Port
- 4MB - 48 Port

BANDWIDTH CONTROL

- Link Aggregation
 - 32 groups 8 ports per group
- Stack-wide trunking
- Rate Limiting

LAYER 3

- RIP v1,v2
- OSPF
- DVMRP
- PIM-DM
- RRP

EMISSIONS

- FCC Class A
- Industry Canada Class A
- EN55022 (CISPR 22) Class A
- VCCI Class A

NETWORK & TRAFFIC CONTROL/SECURITY

- VLAN support
 - 255
- Protocol based vlans
- Spanning Tree protocols
 - 802.1D, 802.1w, 802.1s
- IGMP snooping
 - v1,v2 - 64 groups
- Jumbo frames (9K)
- L3/L4 priority mapping
- Broadcast storm control
- Flow Control
- MAC address filter
- 802.1x
- RADIUS
- TACACS+
- ACL
- SSL/HTTPS
- SSH

SAFETY

- CSA/NRTL (CSA 22.2.950 & UL 1950), EN60950 (TÜV/GS)

MANAGEMENT

- RMON
 - 4 groups
- SNMP
 - v1,v2 and V3
- CLI
- Web interface
- Port mirroring
- DNS
- SNTp
- Syslog remote logging

REDUNDANCY

- Dual firmware image
- Redundant Power

STANDARDS COMPLIANCE

- CE

DIMENSIONS

- 17.3 x 16 x 1.8 in
- 440 x 407 x 43 mm

WEIGHT

- 7 kg (15.4 lbs)
- 6.1 kg (13.4 lbs)

OPTIONAL PLUG-IN TRANSCEIVERS

SMCBGSLCX1

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

SMCBGLLCX1

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

SMCBGZLCX1

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

10G MODULE

- SMC8700GXP10L3

10G TRANSCEIVERS

- SMC10GXEN-SR - SR XENPAK
- SMC10GXEN-LR - LR XENPAK
- SMC10GXEN-ER - ER XENPAK

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