Managed Switch

SMC8748L2

TigerSwitch 1000™ Standalone 48-port 10/100/1000 Managed Layer 2 Switch with 2 x 10G uplink slots.

OVERVIEW

SMC Networks' TigerSwitch 1000 (SMC8748L2) is a high performance, Layer 2 Standalone managed switch capable of providing gigabit connections to workgroups in a 1U chassis. The TigerSwitch 1000 is the first in a new generation of standalone gigabit switches, delivering 48 ports of 10/100/1000 copper gigabit (including 4 combo SFP ports) with the option of 2 x 10G uplinks for future-proof connectivity to the rest of the network. The 136Gbps of wirespeed bandwidth is provided by using a single chip solution reducing latency and bottlenecks within the switch, enabling better performance and throughput. The 10G slots provide the capability to add standards based XFP modules for high bandwidth uplinks. The SMC TigerSwitch 1000 is designed to provide industry leading features and management for increasing productivity and to allow for scalability in the future. The management features include seamless configuration through an easy-to-use Web Interface, Telnet, and SNMP. In addition to management is the full set or layer 2 features such as; LACP for increased bandwidth and port trunking, Spanning Tree for failover protection, QoS is available with 4 queues, VLAN support for segmenting your network, and bandwidth management per port depending on your network needs. TigerSwitch 1000 is able to deliver the necessary bandwidth and security to the edge of the network, capable of supporting even the toughest applications.

FEATURES	BENEFITS
High-port density and migration protection in a small footprint	Supports 48*10/100/1000Mbps with 2 optional 10G Uplink slots in an 1RU chassis
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

TECHNICAL SPECIFICATIONS SMC8748L2

PORTS
- 48 10/100/1000BASE-T ports
- 4 Combo SFP ports
- 2 10G Module slot

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
- 136Gbps
- 101Mpps

BUFFER ARCHITECTURE
- 2Mbytes

SWITCHING DATABASE
- 8K MAC address entries

LED
- System: Power, RPU , Diag, M1, M2
- Port: Link/activity

WARRANTY
- Limited Lifetime

WEIGHT
- 5.02kg (11.1lbs)

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
- 105 Watts maximum

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

MTBF
- 8 Years

SWITCH FEATURES
- Port Mirroring
- IEEE 802.1x
- L2/L3/L4 access control lists
- TACACS+ client authentication
- HTTPS and SSL
- SSH for Telnet sessions
- Static port security
- Jumbo Frame support
- Dual firmware images
- Multiple configuration files support
- Spanning Tree Protocol (802.1D, .1w)
- Forwarding Mode
- Store-and-forward

VLAN SUPPORT
- Up to 256 groups; port-based or with 802.1Q
- VLAN tagging, GVRP for automatic VLAN learning
- 802.1v (Protocol based Vlans)
- Private vlan support

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

MULTILINK TRUNKING (LACP)
- 6 groups of up to 8 ports

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 2665), Bridge MIB Extensions (RFC 2764), RMON MIB (RFC 1757), RFC 2737, RFC 2742, RFC 2021, RFC 2863, RFC 2618, 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
- IEEE802.1v Protocol Based Vlans

ISO
- IEC8802.3

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

SAFETY
- CSA/CUS (UL60950-1, CSA22.2 N060950-1)
- TÜV/GS (EN60950-1)
- CB (IEC 60950-1)

WARRANTY
- Limited lifetime

SUPPORTED MODULES

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

SMCBGSLCX1
- 1G SX SFP Transciever, 550M, Multimode fiber

SMCBGLLCX1
- 1G LX SFP Transciever, 10Km, Singlemode fiber

SMCBGZLCX1
- 1G LH SFP Transciever, 70Km Singlemode fiber

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 Despí
Barcelona, Spain

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