



SMC8648T

TigerSwitch™ 48-port 10/100/1000 Managed Switch with 4 associated mini-GBIC ports



OVERVIEW

Improved- The Power of 96Gbps in 1RU box!

The TigerSwitch 10/100/1000 was the first in the market to bring you a 48-port gigabit switch in a small 1RU footprint. Now enhanced with the latest technologies, the SMC8648T's 48 auto-MDIX 10/100/1000 ports provide a feature-rich platform for bandwidth-starved networks. The SMC8648T delivers wire-speed switching performance

in a robust 88Gbps switch fabric, with advanced features such as QoS priority queuing with IP precedence in Layer2/Layer 4, VLANs with .1Q, 1s, and private, and of course, IGMP for today's multimedia applications. Also included are features such as RADIUS client enhancement for 802.1x, TACACS+, SSH, SSL, Access Control List (ACL) to address today's concerns regarding security.

FEATURES	BENEFITS
High-Port density in a 1RU footprint	Support up to 48 auto-MDIX 10/100/1000 ports with 4 associated mini-GBIC slots for optional gigabit fiber plug-in
VLANs with GVRP support	Layer 2 isolation between ports within the same private VLAN plus support for automatic GVRP LAN registration for maximum security and bandwidth efficiency
IGMPv1/v2	IGMP allows multicast traffic transmission to registered users only
LACP for link aggregation	Port trunking group links between switches, increases bandwidth for dedicated link
RADIUS remote authentication	Features such as 802.1x, TACACS+authentication client, SSH for secure Telnet, HTTPS and SSL address today's concerns regarding security
Jumbo frames 9K support	
Full wire-speed non-blocking switching performance at backplane	



TECHNICAL SPECIFICATIONS

SMC8648T

PORTS

- 48 10/100/1000BASE-T ports
- 4 associated mini-GIBC slots for media expansion

NETWORK MEDIA

- 10BASE-T : RJ-45 UTP Cat. 3, 4, 5
- 100BASE-TX; RJ-45 UTP Cat. 5
- 1000BASE-T: RJ-45 UTP Cat. 5

LEDs

- System (power, RPU, diagnostics)
- Port: Link, Activity

DIMENSIONS

- 17.37 x 13.9 x 1.7 in
- 44.1 x 41 x 4.3 cm (BTH)

WEIGHT

- 9.46 lbs / 4.3Kg

HUMIDITY

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

TEMPERATURE

- Operating : 32 - 122° F / 0 - 50° C
- Storage: -40 - 158°F / -40 - 70° C

WARRANTY

- Limited Lifetime

AGGREGATED BANDWIDTH

- 96Gbps

BUFFER ARCHITECTURE

- 2Mb per system

SWITCHING DATABASE

- 16K MAC address entries

AC INUT

- 100 to 240V, 50-60Hz

POWER SUPPLY

- Internal, auto-ranging transformer : 90 TO 260 VAC, 47 to 63 Hz
- Redundant DC input

POWER CONSUMPTION

- 70W max

HEAT DISSIPATION

- 239BTU/hr

MAXIMUM CURRENT

- 1.2A @ 110VAC,
- 0.6A @ 240 VAC

MTBF

- 7 years (estimated)

SWITCH FEATURES

- Spanning Tree Protocol
- Forwarding mode with support to IEEE802.1w
- Store-and-forward
- Flow Control
 - Full Duplex: IEEE802.3x
 - Half Duplex: back pressure

VLAN Support

- Up to 256 groups; port-based or with 802.1Q VLAN tagging, GVRP for automatic VLAN learning, Private VLANs
- Quality of Service
 - Supports eight levels of priority and weighted fair queuing
 - DSCP based Class of Service
 - TCP/UDP Port Based Class of Service
- Broadcast storm control
- Link Aggregation
- Port Mirroring
- RADIUS Client Enhancement for 802.1x
- TACACS+ authentication client
- HTTPS and SSL
- SSH for secure Telnet Session
- Rate Limiting
- Static Port Security
- SNTP (Simple Network Time Protocol)
- IEEE802.1s independent Spanning Tree for VLAN groups*

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 (RFC1213), Bridging MIB (RFC1493), Ethernet-Like MIB (RFC1643), RMON MIB (RFC1757), RADIUS authentication client MIB (RFC2618), SMC's private MIB, Port Entity Access MIB (802.1x), UDP MIB
- RMON Support
 - Groups 1, 2, 3, 9 (Statistics, History, Alarm, Event)

STANDARD

- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet, IEEE802.3z Gigabit 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 Fast Spanning Tree
- IEEE802.1s Multiple Spanning Tree*
- IEEE802.1v Protocol based VLANs*
- IEEE802.1x authentication

ISO

- IEC8802.3
- SNMP (RFC 1157), RMON (RFC 1757), ARP (RFC826), IEGMP (RFC1157), IGMP (RFC1112), MIB II (RFC1213), Ethernet-like MIB (RFC1643), Bridge MIB (RFC1493), RADIUS (RFC2618), MAU MIB

COMPLIANCES

- CE Mark
- Emissions
 - FCC Class A
 - Industrial Canada Class A
 - EN550222 (CISPR 22) Class A
 - VCCI A
 - C-Tick - AS/NZS 3548 (1995) Class A Immunity
 - IEC 1000- 4 - 2/3/4/6
- Safety
 - CSA/NTRL (CSA22.2.2950 & UL1950), EN60950 (TUV/GS)

OPTIONAL PLUG-IN TRANSCEIVER

MODEL

- SMCBGLXCX1
- SMCBGLLCX1
- SMCBGZLCX1

PORTS

- (1) 1000BASE-SX
- (1) 1000BASE-LX
- (1) 1000BASE-ZX

NETWORK INTERFACE

- LC connector, 50/125 or 62.5/125 micron multimode fiber cable
- LC connector, 9/125 micron singlemode fiber cable

STANDARDS

- 802.3z Gigabit Ethernet

TRANSMISSION

- Full-Duplex

OPTIONAL BUDGET

- 9DB

RANGE

- SMCBSLXC1: Multimode
 - Range: 220m for 62.5/125m, 850nm
 - Range: 550m for 50/125m, 850nm
- SMCBGLLCX1: Single Mode
 - Range: 10Km for 9/125m, 1310nm
- SMCBGZLCX1: single Mode
 - Range: 70 to 100Km for 9/125, 1310nm

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