

Switches/Hubs

# TigerSwitch™ 10/100/1000

24-Port Gigabit 10/100/1000 Managed Switch with 4 mini-GBIC ports

Model Number:

SMC8624T



# The power of 48Gbps in a 1RU box!

The TigerSwitch 10/100/1000 is the first in the market to bring you a 24-port gigabit switch in a small 1RU footprint. Without rewiring your existing network, SMC8624T's 24 auto-MDIX tri-speed ports provide a feature-rich platform for bandwidth-starved networks. SMC8624T delivers non-blocking switching performance in a robust 88Gbps switch fabric, with advance features such as priority queuing, link aggregation LACP, VLANs with GVRP and IGMP for today's multimedia applications. RADIUS and port-based security is also included to address today's concerns regarding security.

TigerSwitch 10/100/1000 is further backed by a comprehensive limited lifetime warranty and SMC's award winning free technical support.

# Overview

#### **Features**

- · High-port density in a 1RU footprint
- · Full wire-speed non-blocking switching performance
- · Priority queuing with Weighted Round Robin (WRR)
- · VLAN with GVRP
- IGMP v.1/v.2
- · LACP for link aggregation
- · Port mirroring
- Port and system security
- SNMP, RMON, spanning tree algorithm
- · Radius remote authentication
- · Forwarding rate of 35.6 Mpps

#### **Benefits**

- Supports up to 24 auto-MDIX 10/100/1000 ports with 4 associated mini-GBIC slots for optional gigabit fiber
- Non-blocking 88Gbps switch fabric for maximum switching performance
- · Four levels of priority, with weighted fair queuing, ensures smooth transmission of vital data
- · Supports VLANs based on tags, ports plus support for automatic GVRP LAN registration for maximum security and bandwidth efficiency.
- · IGMP allows multicast traffic transmission to registered users only
- Port trunking group links between switches, increases bandwidth for dedicated link
- Port mirroring allows sniffer tracking data transmission for easy troubleshooting.

# Compatibility

- IEEE802.3
- IEEE802.3u • IEEE802.3z
- IEEE802.1d
- IEEE802.1p
- IEEE802.1Q
- IEEE802.3ad
- IEEE802.1w (future release)
- · IEEE802.3ab



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### **SMC8624T**

#### Ports

- 24 10/100/1000BASE-T ports
- · 4 mini-GBIC slots for media expansion

#### **Network Interface**

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

#### **Buffer Architecture**

• 2Mb per system

#### Aggregated bandwidth

48Gbps

#### **Switching Database**

32K MAC address entries

- System (power, RPU, Diag.)
- Port (full duplex, activity)
- · Link (speed, link, disable/partition)

#### Weight

• 9.5Lb (4.36 Kg)

#### Size

• 17.37" X 13.9" X 1.7" IN (44.0 X 25.4 X 4.3 mm)

#### Temperature

- Operating: 32 122F
- Storage: -40 158 F

#### Humidity

Operating 5% to 95% (non-condensing)

#### AC Input

. 100 to 240V, 50-60 Hz

#### **Power Supply**

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

#### **Power Consumption**

• 48W Max.

## **Heat Dissipation**

· 239 BTU/hr

#### **Maximum Current**

0.5A @ 110VAC, 0.7 A @ 240VAC

#### **MTBF**

6 years (estimated)

# **Switch Features**

Spanning Tree Protocol

Forwarding Mode with future 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

 Quality of Service Supports four levels of priority and weighted fair queueing

- Broadcast storm control
- Link Aggregation
- Port Mirroring

#### **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 1643), RMON MIB (RFC 1757), RADIUS authentication client MIB (RFC2618), SMC's private MIB

#### **RMON Support**

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

#### Standards

- · 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\*

#### ISO

• IEC8802.3

SNMP (RFC 1157), RMON (RFC 1757), ARP (RFC826), IEGMP (RFC1157), IGMP (RFC1112), MIB II (RFC 1213), Ethernet-like MIB (RFC1643), Bridge MIB (RFC 1493), RADIUS (RFC2618)

# Compliances

- CE Mark
- Emissions

FCC Class A

Industry Canada Class A

EN55022 (CISPR 22) Class A

VCCI A

C-Tick - AS/NZS 3548 (1995) Class A Immunity

IEC 1000 - 4 -2/3/4/6

CSA/NRTL (CSA22.2.2950 & UL 1950), EN60950 (TUV/GS)

#### **Optional Plug-In Transceiver** Model

- SMCBGSLCX1
- SMCBGLLCX1

#### **Ports**

(1) 1000Base-SX

(1) 1000Base-LX

#### **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

Multimode

Range: 220m for 62.5/125m, 850nm Range: 550m for 50/125m, 850nm

 Single Mode Range: 5km for 9/125m, 1310nm

#### Warranty

· Limited Lifetime

Product	Description
SMC8624T	24-port Gigabit 10/100/1000 Managed switch with 4 associated mini-GBICs Uplink ports
SMCBGSLCX1	1000BASE-SX LC SFP Mini-GBIC Transceiver
SMCBGLLCX1	1000BASE-LX LC SFP Mini-GBIC Transceiver
SMCRPS600W	Redundant Power Supply