

Managed &
Unmanaged
Switches

TigerSwitch™ 10/100

Standalone L3 Managed 24-Port 10/100 Switch

Model Number: **SMC6724L3**



SMC's TigerSwitch 10/100, SMC6724L3, performs Layer 2 switching and IP-based Layer 3 routing in the same box. It includes 24 fixed auto-MDIX 10/100BASE-TX ports and 2 slots on the rear panel that accepts optional 100BASE-FX or 1000BASE-X module. This TigerSwitch is designed to integrate network subnets and VLANs seamlessly, augmenting or completely replacing slow legacy routers, and providing the required throughput for today's web-based intranet traffic flow.

The SMC6724L3 also comes fully-loaded with advanced performance-enhancing features: GMRP and IGMP maintain available bandwidth by limiting multicast packet transmissions to subscribers only. DVMRP multicast routing can significantly conserve bandwidth by minimizing packet replication across the network. QoS priority queueing ensures a minimum delay for real-time multimedia data across the network, while port-based and tagged VLANs with support for GVRP are also included to provide traffic security and efficient use of network bandwidth. With a host of advanced features and comprehensive management capabilities, this device is a strong solution for the network core with the flexibility to be integrated into existing network infrastructure.

Overview

Features

- 24 Auto-MDIX 10/100 ports for easy installation and network integration
- Operating at wire-speed for optimal switching and IP routing performance
- 9.6Gbps non-blocking switching and routing fabric
- Support IP, RIP, OSPF routing protocol for routing between subnets and VLANs
- GRMP, IGMP, and DVMRP multicast Protocol supported for today's multimedia application
- Optional redundant power supply

Benefits

- QoS expedites critical data via prioritizing and filtering
- MultiLink Trunking creates high-speed data paths to servers or other switches
- Support up to 256 IEEE802.1Q VLANs, port and protocol based
- Multicast protocols for reducing multicast traffic for maximum performance
- 4 group RMON support for detailed monitoring of network management
- Mirror port traffic from any port for easy troubleshooting
- System and port security features to protect from intruders.

Compatibility

- IEEE802.3 Ethernet
- IEEE802.3u Fast Ethernet
- IEEE802.1D Spanning Tree Protocol and traffic priorities
- IEEE802.1Q VLAN
- IEEE802.1P priority tags
- IEEE802.3x full-duplex flow control
- IEEE802.3z Gigabit Ethernet
- IEEE802.3ab Gigabit Ethernet

TigerSwitch™ 10/100

Standalone L3 Managed 24-Port 10/100 Switch

Managed &
Unmanaged
Switches

SPECIFICATIONS
011000010001101001100110100110100110100110100110100110100110101010

SMC6724L3

Physical Characteristics

Ports

- 24 auto-MDIX 10BASE-T/100BASE-TX
- RJ-45 ports and
- 2 slots for expansion module
- Built-in Network Management

Network Interface

- 10BASE-T: RJ-45 UTP CAT. 3,4,5
- 100BASE-TX: RJ-45 UTP Cat. 5
- 100BASE-FX: SC/ST connector
- 1000BASE-SX: SC connector
- 1000BASE-LX: SC connector
- 1000BASE-T: RJ-45 connector
- Multimode fiber cable: 62.5/125 or 50/125 microns
- Singlemode fiber cable: 9/125 microns

Switching bandwidth capacity

- 8.8Gbps

Buffer Architecture

- 4 Mb shared

Switching Database

- 32K MAC address entries

LED

- System: Power, RPU, SNMP, Console
- Port = link, status (collision, activity, full duplex, 100M)

Weight

- 5.1 Kg
- 11.24 lbs

Size

- 44.0x 28.5x 6.4 cm (17.37 x 11.2x 2.53 in)

Temperature

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

Humidity

- Operating: 5% to 95%

AC Input

- 80 to 264V, 50 to 60 Hz

Power Supply

- Internal, auto-ranging transformer: 100 to 240VAC, 50 to 60 Hz

Power Consumption

- 61W max

Heat Dissipation

- 208 BTU/hr

Maximum Current

- 3A @ 110VAC, 2A @ 240VAC

MTBF

- 8 years

Switch Features

- Layer 3: IP routing
- L2/L3 Multicasting

- -GMRP (GARP Multicast Registration Protocol)
- -IGMP (Internet Group Management Protocol)
- -DVMRP (Distance Vector Multicast Routing Protocol)
- -Layer 2: Spanning Tree Protocol

Forwarding Mode

- 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 two levels of priority and weighted fair queuing
- 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), 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,
- IEEE802.1Q VLAN
- IEEE802.1P priority tags
- IEEE802.3x full-duplex flow control
- IEEE802.3z Gigabit Ethernet
- IEEE802.3ab Gigabit Ethernet
- RFC 1157 SNMP, RFC 826 ARP, RFC 791 IP, RFC 792 ICMP, RFC 768 UDP, RFC 793

- TCP, RFC 783 TFTP, RFC 854-859 TELNET, RFC 1157 SNMP, RFC 1213 MIB-II, RFC 1573 Evolution of Interface Group MIB, RFC 1215 Traps, RFC 1493 Bridge MIB, RFC 1757 RMON, RFC 1866 HTML, RFC 2068 HTTP, RFC 1724 RIP2 MIB, RFC 1850 OSPF2 MIB, RFC 2096 IP
- Forwarding Table MIB RFC 2096

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

Safety

- CSA/NRTL (CSA 22.2.2950 & UL 1950), EN 60950 (TUV/GS)

Warranty

- Limited Lifetime

Slide-In Modules

100Base-FX Extender Module

Models

SMC6725L2FMSC
SMC6725L2FSSC
SMC6725L2FMST

Ports

- 1- 100BASE-FX MMF or SMF

1000BASE-SX Extender Module

1000BASE-LX Extender Module

Model

SMC6724L2GSSC
SMC6724L2GLSC
SMC6724L2GSST
SMC6725L2GT

Ports

- 1- 1000BASE-SX
- 1- 1000BASE-LX
- 1- 1000BASE-SX
- 1- 1000BASE-T

Product	Description
SMC6724L3	L3 Managed 24-port 10/100 auto-MDIX Switch
SMC6725L2GT	1-port 1000BASE-T module
SMC6724L2GSSC	1-port 1000BASE-SX SC module
SMC6724L2GLSC	1-port 1000BASE-LX SC module
SMC6725L2FMSC	1-port MMF 100BASE-FX SC module
SMC6725L2FSSC	1-Port SMF 100Base-FX SC module
SMC6725L2FMST	1-Port MMF 100BASE-FX SC module with SC to ST converter
SMCRPU60W	Redundant Power Unit