

# Data Sheet

## TigerSwitch™ 10/100 SMC6724AL2



### Standalone L2/L4 Managed 24+2-port 10/100 Switch

The TigerSwitch 10/100, SMC6724AL2 features 24 fixed auto-MDIX 10/100BASE-TX ports and 2 slots on the front panel that accepts optional 100BASE-FX or 1000BASE-X module. This TigerSwitch is designed to provide fast networking experience with complete security in today's fast-paced multimedia environment.

The SMC6724AL2 comes fully-loaded with advanced performance-enhancing features: IGMP snooping maintain available bandwidth by limiting multicast packet transmissions to subscribers only. QoS and Layer 2/4 Class Of Service ensure 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. VLANs with IEEE 802.1Q, .1s, and private VLANs for today's diverse 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 and Benefits

##### High Performance & Functionality

- 24 auto-MDIX 10/100 ports with optional 100BASE-FX or 1000BASE-X for easy installation and network integration
- Operating at wire-speed for optimal switching experience
- Private VLANs for complete isolation of ports to protect privacy and security
- Fully featured with security and management tools/protocols
- Layer 2/4 CoS with IP precedence and IP DSCP to ensure smooth transmission of vital data
- Isolation between ports within the same private VLAN plus support for automatic GVRP LAN registration for maximum security and bandwidth efficiency
- CLI, SMTP, and SNMP are provided to facilitate network management
- Features such as 802.1x, TACACS+ authentication client, SSH for secure Telnet, and SSL address today's concerns regarding security
- Effective management of bandwidth

##### Compatibility

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3z
- IEEE 802.1d
- IEEE 802.1s\*
- IEEE 802.1P
- IEEE 802.1Q
- IEEE 802.1v\*
- IEEE 802.1ad
- IEEE 802.1w
- IEEE 802.1x

Product	Model No	Description
Tiger Switch™	SSMC6724AL2	Standalone Layer 2 Managed 24+2 10/100 Switch
	SMC6824FMSC	1-Port 100BASE-FX MMF SC Module
	SMC6824FSSC	1-Port 100BASE-FX SMF SC Module
	SMC6824FMST	1-Port 100BASE-FX MMF SC Module+ SC-ST converters
	SMC6824GT	1-Port 100/1000BASE-T RJ-45 Module
	SMC6824GB	1-Port 1000BASE-X GBIC module (transceiver sold separately)
	SMCBGSSCX1	1000BASE-SX SC GBIC transceiver
	SMCBGLSCX1	1000BASE-LX SC GBIC transceiver
	SMCBGZSCX1	1000BASE-ZX SC GBIC transceiver

\* please contact your SMC sales for availability

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## Specifications

### Ports

- 24 auto-MDIX 10BASE-T/100BASE-TX
- 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
- 1000BASE-T: RJ-45 UTP Cat. 5
- 100BASE-FX: SC/ST connector
- 1000BASE-X : GBIC interface
- 1000BASE-SX: SC connector
- 1000BASE-LX: SC connector
- 1000BASE-ZX: SC connector
- Multimode fiber cable: 62.5/125 or 50/125 micros
- Singlemode fiber cable: 9/125 microns

### Buffer Architecture

- 4Mb per system

### Aggregated Bandwidth

- 8.8Gbps

### Switching Database

- 8K MAC address entries

### LEDs

- System (power, Diagnostics)
- Port: Link, Activity

### Weight

- 6 lbs 13 oz(3.08kg)

### Size

- 17.32" x 12.8" x 1.69" inch  
(44.0 x 32.40 x 4.3cm)

### Temperature

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

### Humidity

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

### AC Input

- 100 to 240V, 50-60Hz

### Power Supply

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

### Power Consumption

- 60W max

### Heat Dissipation

- 205BTU/hr

### Maximum Current

- 3.0A @ 110VAC,
- 2.0A @ 240 VAC

### Switch Features

#### Layer 2 Switching:

- 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
- Class of Service

- Supports four 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
- SSL
- SSH1.5 for secure Telnet Session
- Access Control List
- Rate Limiting (egress and ingress)
- Static Port Security
- SNTP (Simple Network Time Protocol)
- IEEE802.1s independent Spanning Tree for VLAN groups\*
- DiffServ\*

### 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
- System Event log
- MIB Support
  - MIB II (RFC1213), Bridging MIB (RFC1493), Ethernet-Like MIB (RFC 1643), RMON MIB (RFC1757), RADIUS authentication client MIB (RFC2618), SMC's private MIB, Port Entity Access MIB (802.1x), UDP MIB, RFC1850 OSPF II MIB, RFC2096 Forwarding Table MIB, RFC2737 Entity MIB, RFC2742 Extensible SNMP Agents MIB, IP Multicasting related MIBs, IGMP MIB, Private MIB, IEEE802.1w Rapid Reconfiguration Spanning Tree MIB

### RMON Support

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

### Standards

- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet, IEEE802.3z Gigabit
- 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 (RFC112), MIB II (RFC1213), Ethernet-like MIB (RFC1643), Bridge MIB (RFC1493), RADIUS (RFC2618), MAU MIB

# TigerSwitch™ 10/100 SMC6724AL2

## Standalone L2/L4 Managed 24+2-port 10/100 Switch



### 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
  - EC 1000- 4 - 2/3/4/6
- Safety
  - CSA/NTRL (CSA22.2.2950 & UL1950), EN60950 (TUV/GS)

### Slide-In Modules

- 100BASE-FX Extender Module
- Models
  - SMC6824FMSC
  - SMC6824FSSC
  - SMC6824FMST

### Ports

- 1100BASE-FX MMF or SMF

### Network Interface

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

### Model

- SMC6824GT
- SMC6824GB

### Ports

- 1100/1000BASE-T RJ-45
- 1 Standardized GBIC 1000BASE-X

### Standards

- 802.3ab Gigabit Ethernet
- 802.3z Gigabit Ethernet

### Warranty

- Limited Lifetime

\* please contact your SMC sales for availability

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