SMC6750L2 is a new generation of high performance switch that has a non-blocking switch fabric of 19.2Gbps. With a small footprint of 1RU high, TigerSwitch™ 10/100 carries 50 fixed auto-MDIX ports and two combo Gigabit ports. The 2 combo Gigabit ports include 2 fixed-in Gigabit copper 10/100/1000 ports, but will be disabled if mini-GBIC ports for fiber Gigabit are utilized. With an aggregated bandwidth of up to 13.6Gbps, this non-blocking high-density switch is fully packed with Layer 2 switching features such as RADIUS, link aggregation LACP, QoS, VLANs with GVRP, IGMP Snooping and priority queuing.

Maximum uptime can be further increased by deploying the optional SMCRPS600W redundant power unit. Each SMCRPS600W provides a dedicated, redundant power supply for up to four SMC6750L2, eliminating the switch’s internal power supply as a single point of failure. To address administrators’ security concerns, future software support such as MAC address filters and TACACS+ will be implemented.

Moreover, the optional 1000SX and 1000LX Gigabit Ethernet optical transceivers are small form-factor pluggable (SFP) designs and support distances between 220m and 5km, depending on the type of fiber media used.

SMC6750L2 is ideal for medium to large network looking to strengthen its network backbone connection.
**SPECIFICATIONS**

**Ports**
- 48 Auto-MDI(X) 10Base-T/100Base-TX RJ-45 ports
- 2 combo ports: 2/10/100/1000 fixed-in ports or 2 mini-Gbic
- Built-in network management

**Network Interface**
- 10Base-T: RJ-45 UTP Cat. 3
- 100Base-TX: RJ-45 UTP Cat. 5
- 1000Base-SX: LC connector
- 1000Base-LX: LC connector
- 1000Base-T: RJ-45 connector

**Switch Fabric**
- 1000Base-T: RJ-45 connector
- 1000Base-LX: LC connector
- 1000Base-SX: LC connector
- 100Base-TX: RJ-45 UTP Cat. 5
- 10Base-T: RJ-45 UTP CAT. 3,5

**Aggregated Bandwidth**
- 13.6Gbps

**Forwarding Rate**
- 10.1Mpps

**Buffer Architecture**
- 8K MAC address entries
- 64Mb per system

**Switching Database**
- 440mm x 324mm x 43mm Dimension
- 2.7kg (6.0lbs) Weight

**Temperature**
- In operation: 0°C ~ 55°C
- In storage: -40°C ~ 70°C

**Relative Humidity**
- In operation: 15% ~ 95% @ 40°C (non-condensing)
- In storage: 90% @ 65°C (non-condensing)

**Power Input**
- AC Input
  - 100 to 240V, 47Hz to 63Hz
- Power Supply
  - Internal, auto-ranging transformer: to 240VAC, 47Hz to 63Hz

**Power Consumption**
- 48W
- Heat Dissipation
  - 123 BTU/hr
- Maximum Current
  - Voltage: 100-127 VAC/200-240 VAC
  - Current: 5A max

**MTBF**
- 6 years

**Switch Features**
- Spanning Tree Protocol with future support to IEEE802.1w*
- 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
    - - Class of service
      - - Supports four levels of priority
      - MultiLink trunking (LACP)
    - Port mirroring
    - Rate limiting*

**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, IEEE802.3z Gigabit Ethernet
- IEEE802.1D Spanning Tree Protocol and traffic priorities
- IEEE802.1Q VLAN
- IEEE802.1ad VLAN tagging
- IEEE802.1f link aggregation control protocol
- IEEE802.1w Fast Spanning Tree*

**ISO**
- IEC8802.3
- SNMP (RFC 1157), RMON (RFC 1757), IEC8802.1Q VLAN tagging
- IGMP (RFC1112), MIB II (RFC 1213), Ethernet-like MIB (RFC1643), Bridge MIB (RFC 1493)

**Compliances**
- CE Mark
- Emissions
  - - FCC Class A
  - - Industry Canada Class A
  - - EN55022 (CISPR 22) Class A
  - - VCCI Class A
  - - C-Tick – AS/NZS 3548 (1995) Class A
  - - UL 1950 (TUV/GS)
- Safety
  - - UL
  - - CSA-NRTL (CSA22.2.950 &UL 1950)
  - - En60950 (TUV/GS)

**Network Interface**
- LC connector, 50/125 or 62.5/125 micron multimode fiber cable
- LC connector, 9/125 micron fiber cable

**Transmission**
- Full Duplex

**Range**
- Multimode
  - 220m for 62.5/125μm, 850nm
  - 550m for 50/125μm, 850nm
  - Single mode
  - 5km for 9/125μm, 1310nm

**Warranty**
- Limited lifetime

* Future release

**Optional Plug-In Transceiver**

**Model**
- SMC6GSL LX1
- SMCBSL LXX1

**Ports**
- One 100Base-SX
- One 100Base-LX

**Network Interface**
- LC connector, 50/125 or 62.5/125 micron multimode fiber cable
- LC connector, 9/125 micron fiber cable

**Standards**
- 802.3z Gigabit Ethernet

**Transmission**
- Full Duplex

**Range**
- Multimode
  - for 62.5/125μm, 850nm
  - 550m for 50/125μm, 850nm
  - Single mode
  - 5km for 9/125μm, 1310nm

**Warranty**
- Limited lifetime

* Future release

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