# SMC Networks

**Extended Ethernet**

# SMC7724M/VSW
## TigerAccess™ Extended Ethernet Switch



## OVERVIEW

SMC's Extended Ethernet (EE) network solution provides an alternative cost-effective solution for network/Internet access to multi-unit buildings or enterprise environments such as hospitals, universities, and manufacturing facilities. Using existing catagory 1, 2, or 3 wiring, SMC's Extended Ethernet technology is able to deliver up to 15Mbps of broadband connection for distance up to 5000 feet/ 1500m. SMC's EE solution minimize the hassles involved in rewiring by delivering both voice and data access on the same line as Plain Old Telephone Service (POTs). It is also compatible with ADSL (asymmetric digital subscriber line). SMC's EE solution  is the best choice for service providers to supply broaband access with minimal changes to existing wiring infrastructure.

The TigerAccess™ Extended Ethernet Solution includes the TigerAccess™ EE Switch, TigerAccess™ EE CPE (Customer Premise Equipment), and TigerAccess™ EE Splitter.

TigerAccess™ EE Switch

SMC's Extended Ethernet Switch-SMC7724M/VSW together with the Extended Ethernet Splitter-SMC7024/VSP, SMC7048/VSP combines data and voice signals for delivery over standard telephone cable to multiple users in residential or commercial buildings. Ethernet data signals are received on the switch uplink port and passed to the 24 Extended Ethernet ports on the rear panel via 24 internal Ethernet ports. These data signals are then passed to the splitter via the Extended Ethernet connector on the rear panel. The switch supports optional 1-port 1000BASE-T, 1000BASE-X GBIC, 100BASE-FX multimode and single-mode and 10/100BASE-TX modules. It also has an SFP slot for Gigabit transceivers. The fiber module and transceiver ports can provide direct connection to your ISP with fiber optic cable.

| FEATURES | BENEFITS |
|---|---|
| Optional 10/100TX, Gigabit or 100FX Uplinks | Up to 1Gbps bandwidth can be provided for up- linking to a server or another switch |
| QoS that supports four levels of priority | Ensures smooth transmission of mission critical data and multimedia application |
| Rate Limiting | Facilitates bandwidth control under MTU/MDU condition |
| RADIUS Client | Provides network access authentication |
| Limited lifetime warranty | Investment protection and quality assurance |

## PORTS
- 1 RJ-21 Port
  (contains 24 Extended Ethernet Ports)
- 1 Slot for Ethernet expansion module
- 1 Mini-GBIC Slot (SFP)

## NETWORK INTERFACE
- Ethernet Expansion:
  - 10BASE-T: RJ-45 UTP category 3, 4, 5
  - 100BASE-TX: RJ-45 UTP category 5
  - 100BASE-FX: MMF SC/ST connector
  - 1000BASE-T: RJ-45 connector
  - 1000BASE-SX: MMF SC/LC connector; 62.5/125 or 50/125 microns
  - 1000BASE-LX: SMF SC/LC connector; 9/125 microns
- Extended Ethernet:
  - 10BASE-S: RJ-21; one-pair category 1, 2, or 3 UTP cabling

## EXTENDED ETHERNET SPECIFICATIONS
- VDSL Standards: supports evolving ETSI, ANSI and ITU standards
- Modulation: 4 to 256 QAM Frequency Division Duplexing

## SPEED/DISTANCE
- Up to 15 Mbps symmetrical transmission rate at 3500 ft/ 1000m distance
- Up to 10 Mbps symmetrical transmission rate at 4000 ft/ 1200m distance
- Up to 5 Mbps symmetrical transmission rate at 5000 ft/ 1500m distance

## LEDs
- System: Power, Diagnostics, AC power, Master
- Ethernet: Link, Speed, Activity
- Extended Ethernet: Link, Activity

## SWITCHING DATABASE
- 8K MAC address entries

## BUFFER ARCHITECTURE
- 16Mb shared

## MTBF
- 6 years

## SWITCH FEATURES
- Spanning Tree Protocol
- Forwarding Mode: Store-and-forward
- Full Duplex Flow Control, Half Duplex Back Pressure
- VLAN Support: Up to 256 groups with GVRP; port-based or with 802.1Q VLAN tagging
- Quality of Service; supports four levels of priority and WRRQ
- MultiLink Trunking (LACP)
- Port Mirroring
- IGMP Multicast Filtering
- RADIUS Client
- Rate Limiting

## MANAGEMENT FEATURES
- In-band: Telnet, SLIP, Web-based HTTP, or SNMP manager
- Out-of-band: RS232 DB9 console port
- Software Loading: TFTP (in-band), Xmodem (out-of-band)
- RMON Support: Groups 1, 2, 3, 9 (statistics, history, alarm, event)

## STANDARD
- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet, IEEE802.3ab/z Gigabit Ethernet, IEEE802.3x Flow Control
- IEEE802.1D Spanning Tree, IEEE802.1p Priority Tags, IEEE802.1Q VLAN, IEEE802.1ac VLAN Tagging, IEEE802.1ad Link Aggregation

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

## HUMIDITY
- Operating: 5% to 90% (non-condensing)

## HEAT DISSIPATION
- 137 BTU/hr maximum

## WEIGHT
- 7.94 lbs
- 3.6 Kg

## DIMENSIONS
- 1.7 x 17.4 x 13.9 in
- 44 x 440 x 352 mm

## POWER CONSUMPTION
- 40W max.

## POWER SUPPLY
- Internal, auto-ranging transformer: 100 - 240VAC, 50 - 60 Hz
- Maximum Current: 0.5A max. @110V, 0.25A max. @240V

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

## SAFTEY
- CSA/NRTL (CSA 22.2.950 & UL1950)
- EN60950 (TUV/ GS)

## WARRANTY
- Limited Lifetime

## SLIDE-IN MODULES
- SMC7724T
  - 1x 10BASE-T/100BASE-TX (RJ-45)
  - Full-/ Half-Duplex, Auto-Negotiation
  - IEEE802.3, IEEE802.3u
- SMC7724FMSC
  - 1x 100BASE-FX (MMF SC)
  - Full-/ Half-Duplex, Auto-Negotiation
  - IEEE802.3u
- SMC7712GB
  - 1x 1000BASE-X GBIC-Slot (MMF/ SMF SC, transceiver separately available)
  - Full-Duplex
  - IEEE802.3z
- SMC7712GT
  - 1x 10BASE-T/100BASE-TX/1000BASE-T (RJ-45)
  - Full-/ Half-Duplex, Auto-Negotiation
  - IEEE802.3ab

## Contact