



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 category 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 broadband 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



TECHNICAL SPECIFICATIONS

SMC7724M/VSW

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 100BASE-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

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