



SMC7824M/VSW

TigerAccess™ Extended Ethernet Switch

OVERVIEW

SMC's VDSL2 Extended Ethernet 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 100Mbps of broadband connection for distances up to 800ft. SMC's Extended Ethernet solution minimizes the hassle involved in rewiring by delivering both voice and data access on the same line as Plain Old Telephone Service (POTS). SMC's EE solution is the best choice for service providers to supply broadband access with minimal changes to existing wiring infrastructure.

VDSL2 enables the provider to offer a larger range services over the existing telephone wires which have been unavailable due to the high bandwidth requirements such as HDTV streaming and Video On Demand.

KEY FEATURES

Increased Port Density

Supporting up to 24 ports of VDSL2 connectivity and 2 Gigabit Copper ports for uplinks offers higher port density to deliver next generation services in a variety of hospitality environments.

Support for Advanced Applications

Software features including QoS and IGMP which are designed to provide better support for Video On Demand and other enhanced services for Hospitality Environments.

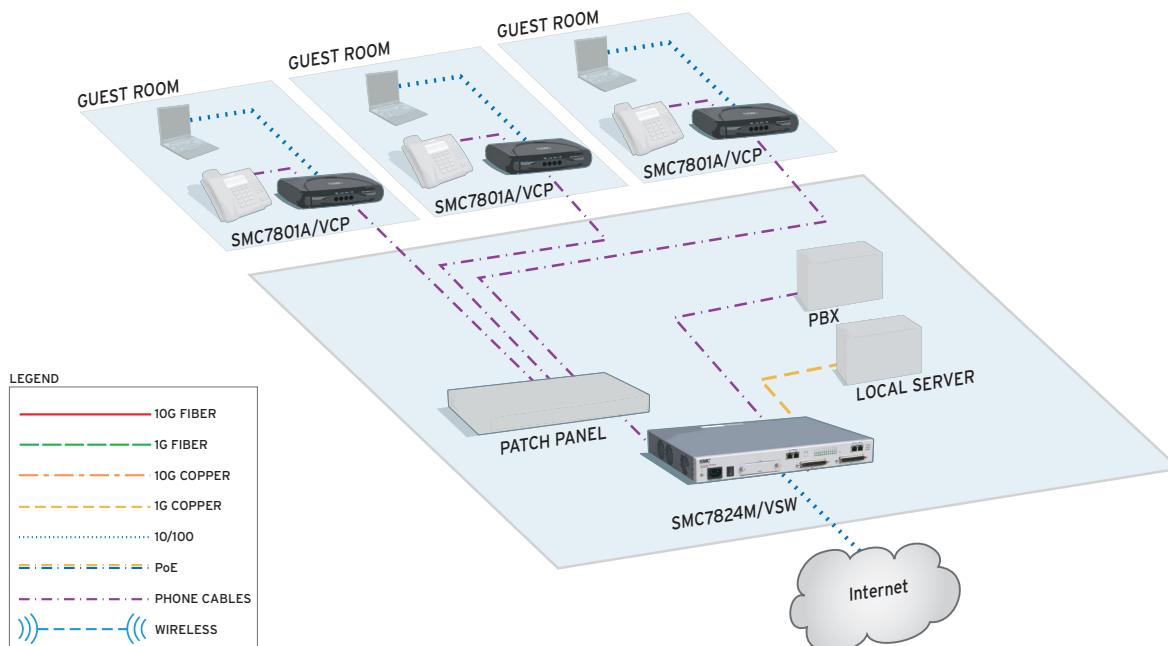
Bandwidth

Supporting up to a maximum of 100M Upstream and 100M Downstream bandwidth. The bandwidth does change with increased distance but still provides a high throughput for internet and advanced applications.

Support for Standard Features

As part of SMC's commitment to standards based networking solutions the SMC7824M/VSW supports industry standard features. This includes Spanning Tree, VLANs and 802.1x delivering reliable, flexible and secure solutions for hospitality environments.

APPLICATION DIAGRAM



TECH SPECS - SMC7824M/VSW

PORTS

- 2 x RJ-21 Ports (contains 24 Extended Ethernet Ports)
- 2 x Gigabit ports (RJ-45)
- 1 x 100BASE-T Management Port
- 1 x RJ-45 console port
- 1 x module slot

NETWORK INTERFACE

- 10BASE-T: RJ-45 UTP category 3, 4, 5
- 100BASE-TX: RJ-45 UTP category 5
- Extended Ethernet:
 - 10BASE-S: RJ-21; one-pair category 1, 2, or 3 UTP cabling

EXTENDED ETHERNET SPECIFICATIONS

- VDSL2 Standards: supports evolving ETSI, ANSI and ITU standards
- Modulation: 4 to 256 QAM Frequency Division Duplexing

SPEED/DISTANCE

- Up to 100Mbps download speed at 1500 ft / 500m distance
- Up to 50 Mbps download speed at 3000 ft/ 1000m distance

SWITCHING DATABASE

- 8K MAC address entries

LED

- System: RUN, FAN, DWR
- Uplink Ports : L/A, 1G
- VDSL2 Ports : Link
- Manager : Link, ACT
- Console : TX, RX

BUFFER ARCHITECTURE

- 16Mb shared

MTBF

- 8 years

SWITCH FEATURES

- Spanning Tree Protocol (.1d, .1w, .1s)
- Forwarding Mode: Store-and-forward
- Full Duplex Flow Control, Half Duplex Back Pressure
- VLAN Support: Up to 4k groups with port-based 802.1Q VLAN tagging, Protocol, MAC, Subnet based VLANs
- Quality of Service; supports eight levels of priority and DWRR
- MultiLink Trunking (LACP)
- Port Mirroring
- IGMP Multicast Filtering
- MVR
- RADIUS Client
- Rate Limiting

MANAGEMENT FEATURES

- In-band: Telnet, SSHv2, SNMP v1, v2, v3
- Out-of-band: RS232 RJ-45 console port, management 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 IEEE802.1w Rapid Spanning Tree, IEEE802.1p Priority Tags, IEEE802.1Q VLAN, IEEE802.1ac VLAN Tagging, IEEE802.1ad Link Aggregation

TEMPERATURE

- Operating: -4°F - 140°F / 20°C - 60°C
- Storage: -40°C - 158°F / -40°C - 70°C

HUMIDITY

- Operating: 0% to 90% (non-condensing)

WEIGHT

- 11lbs
- 5kg

DIMENSIONS

- 44.0 x 55 x 310 cm
- 17.3 x 2.2 x 12.2 in

POWER CONSUMPTION

- 88.3W 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
- FCC Part 68
- Industry Canada Class A
- EN 61000-3-2/3
- EN55022 (CISPR 22) Class A

IMMUNITY

- EN 61000-4-2/3/4/5/6/8/11

SAFTEY

- CSA/CUS (CSA 22.2. NO 60950-1 & UL60950-1)
- CB (IEC60950-1)

WARRANTY

- Please check www.smc.com for the warranty terms in your country/region

CPE

SMC7801A/VCP

TigerAccess™ Extended Ethernet CPE

- 1 Port CPE
- 1 Ethernet port
- 1 VDSL2 port
- 1 RJ-11 port

CONTACT

North America
20 Mason
Irvine, CA 92618
1-800-SMC-4YOU
24/7 Technical Support

Europe/Africa
Fructuos Gelabert 6-8
08970 Sant Joan Despi
Barcelona, Spain

Check www.smc.com for your local country contact information

© 2009 SMC Networks. SMC and the SMC logo are registered trademarks of SMC Networks in the United States or other countries. Other trademarks or registered trademarks are the property of their respective owners. Information is subject to change without notice. All rights reserved.

8/2009