



SMC8124PL2

TigerSwitch™ 10/100/1000 Standalone 24-port 10/100/1000 Managed Layer 2 Switch with PoE including 2 x SFP combo ports

OVERVIEW

The SMC8124PL2 provides wire speed 10/100/1000 Gigabit Ethernet switching with built in PoE features specifically designed for SMB workgroup environments. By supporting 802.3af PoE on all 10/100/1000 copper ports it enables easy installation of PoE devices such as IP Phones and IP Cameras. The integrated combo ports provide SFP's for where fiber is required for extended distances. An integrated part of this switch family is the IP Clustering function. The feature allows customers to group together up to 32 switches into a single logical group which can be managed using a single IP address. The switch also boasts advanced Quality of Service features that can reduce the latency of packets through the network, with specific traffic prioritization improving the delivery of converged data such as voice and high quality video over IP. The 2 combo ports provide either 10/100/1000 or SFP ports. The PoE function allows up to 15.4W maximum per port. Overall this switch is part of a flexible switch family which brings PoE and non-PoE switches to the edge of the network.

KEY FEATURES

Highest Performance and Lowest Power

As part of SMC commitment to green networking this switch family is designed around the latest generation switching silicon which can provide high performance and the low power requirements such as 38W for the SMC8126L2. Translating into approximately 1.4W per port for the 26 port and 1.3W per port for the 50 port.

MultiLink Trunking with LACP

Including the ability to bundle together the front panel ports to provide higher performing uplinks. Trunk links can be configured manually or using the 802.3ad standard which is supported on this switch family.

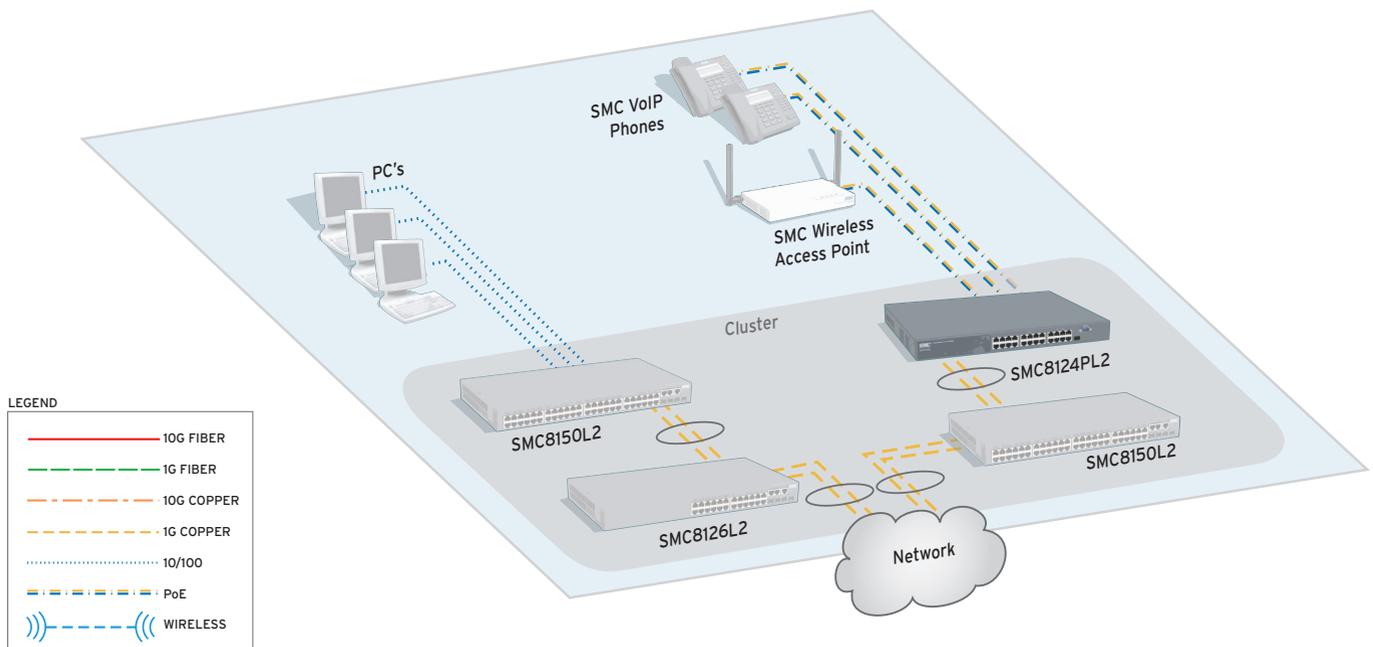
Flexible Security Features

Security is critical to next generation networks. This switch family includes a range of User and Device security functions which will help protect the network. Secure management interfaces for protecting device configuration and secure user access using 802.1x or Private Vlans to prevent unauthorized access.

IP Clustering

Ease of management is crucial and to help deliver this we have included IP Clustering. This allows users to group together up to 32 switches as part of a logical cluster. The units can be part of this switch family or from the SMC61xxL2 family giving added flexibility.

APPLICATION DIAGRAM



TECH SPECS - SMC8124PL2

PORTS

- 24 10/100/1000BASE-T ports
- 2 SFP transceiver slots
- 1 Console port

NETWORK INTERFACE

- 10/100/1000 BASE-T ports
- SFP Transceiver slots supporting SX, LX and ZX SFP
- Multimode fiber cable; 62.5/125 or 50/125 microns
- Singlemode fiber cable: 9/125 micron

SWITCHING FABRIC

- 48Gbps
- 35.7Mpps

BUFFER ARCHITECTURE

- 768Kbytes

SWITCHING DATABASE

- 8K MAC address entries

LED

- System: Power
- Port: Link/Act; PoE

TEMPERATURE

- Operating: 0 to 45 °C / 32 to 113 °F
- Storage: -40 to 70 °C / -40 to 158 °F

HUMIDITY

- Operating: 10% to 90% (non-condensing)

WEIGHT

- 4.33Kg
- 9.53lbs

DIMENSIONS

- 44x 32 x 4.3cm
- 17.3 x 12.6 x 1.7 in

AC INPUT

- 100 to 240 V, 50-60 Hz, 3A

POWER SUPPLY

- Internal, auto-ranging transformer: 100 to 240 VAC, 47 to 63Hz

POWER CONSUMPTION

- 45W (Switch)
- 180W (Power over Ethernet)

MAXIMUM CURRENT

- 0.25 A @ 115 VAC
- 0.12 A @ 230 VAC

POWER-OVER-ETHERNET

- Maximum output power per port: 15.4 W
- Output Voltage: 44 - 57 VDC
- Maximum output current per port: 350 mA

MTBF

- 8 Years

SWITCH FEATURES

- Spanning Tree Protocol (802.1D, .1w, 1s)
- Forwarding Mode
- Store-and-forward
- VLAN Support
 - Up to 255 groups; port-based or with 802.1Q
 - VLAN tagging, GVRP for automatic VLAN learning
 - 802.1v (Protocol based Vlans)
 - Private vlan support
- Quality of Service
 - Supports 4 levels of priority with flexible classification and prioritization
 - Per port bandwidth management
- MultiLink Trunking (LACP)
 - 8 groups of up to 8 ports
- Port Mirroring
- IEEE 802.1x
- L2/L3/L4 access control lists
- TACACS+ client authentication
- HTTPS and SSL
- SSH for Telnet sessions
- Static port security
- Jumbo Frame support (on gigabit ports)
- Dual firmware images
- Multiple configuration files support

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 2665), Bridge MIB Extensions (RFC 2764), RMON MIB (RFC 1757), RFC 2737, RFC 2742, RFC 2021, RFC 2863, RFC 2618, SMC's private MIB

STANDARDS

- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet
- IEEE802.1D Spanning Tree Protocol and traffic priorities
- IEEE802.3ab and IEEE802.3z Gigabit Ethernet
- IEEE802.1p Priority tags
- IEEE802.1Q VLAN
- IEEE802.1ac VLAN tagging
- IEEE802.3ad Link aggregation control protocol
- IEEE802.1w Rapid Spanning Tree
- IEEE802.1v Protocol Based Vlans
- IEEE802.3af Power over Ethernet
- IEEE 802.3x Flow Control

RMON SUPPORT

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

ISO

- IEC8802.3

COMPLIANCES

- CE Mark
- Emissions
 - FCC Class A
 - Industry Canada Class A
 - EN55022 (CISPR 22) Class A
 - EN 61000-3-2/3
- Immunity
 - EN 61000-4-2/3/4/5/6/8/11

SAFETY

- UL / CUL (UL 60950-1, CSA 22.2 NO60950-1)
- TUV/GS (EN60950-1)
- CB (IEC60950-1)
- CSA/CUS (CSA 22.2. NO 60950-1 & UL60950-1)

WARRANTY

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

SLIDE-IN TRANSCEIVERS FOR COMBO PORTS

SMC1GSFP-SX

- 1G SX SFP Transceiver, 550M, Multimode fiber

SMC1GSFP-LX

- 1G LX SFP Transceiver, 10Km, Singlemode Fiber

SMC1GSFP-ZX

- 1G LH SFP Transceiver, 70Km, Singlemode fiber

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