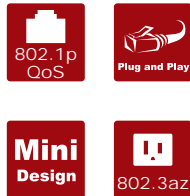
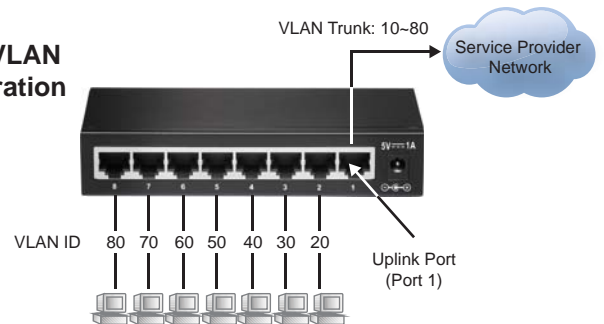


SMCGS805

EZ Switch™ 8-Port Gigabit Ethernet Switch



Private VLAN Configuration



Product Overview

The EZ Switch 10/100/1000, SMCGS805, is a powerful, high-performance Gigabit Ethernet switch with eight RJ-45 ports. The switch supports auto-negotiation on all ports, which means they automatically negotiate with connected partners to determine the network speed (10/100/1000 Mbps) and duplex mode (full or half duplex).

The auto-sensing ability of the ports provides an easy way to migrate from 10/100 Mbps to a 1000 Mbps network. The switch also supports Auto-MDI/ MDIX, so each port can be connected to PCs or other switches using only straight-through cables. Crossover cables are not needed.

Store-and-forward switching provides low latency while eliminating error packets on the network. Also, the switch supports pre-standard IEEE 802.3az Energy Efficient Ethernet that saves power consumption.

Key Features and Benefits

IEEE 802.3az Energy-Efficient Ethernet Support

When two 802.3az-compliant switches are connected, up to 76%* of power consumption can be saved.

Support for IEEE 802.1p Quality of Service

The switch supports 802.1p Quality of Service, which is important in implementations where time-sensitive data, such as voice and video, are streamed across the network.

Private VLANs

The switch supports a private VLAN feature, which is designed for Internet access deployment where subscriber end nodes are connected to an Internet Service Provider network through the switch. In this application, each port is isolated in its own private VLAN to provide security for each end user, only the uplink port (Port 1) can communicate with all other ports. Ports 2-8 cannot communicate with each other.

Broadcast Storm Control and CRC Filtering

Broadcast storm control prevents broadcast traffic storms from consuming bandwidth, and CRC filtering stops bad packets from propagating throughout the network.

Loopback Detection and Prevention

When a loop occurs, the switch blocks the loop port automatically, protecting the switch and indicating the port that has the loop issue with the port LED.

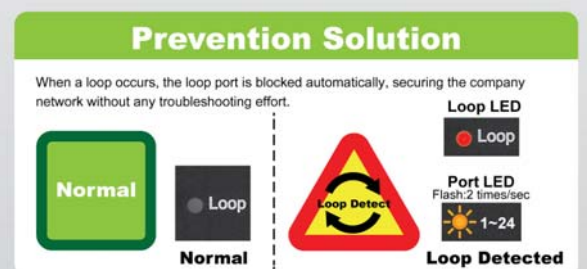
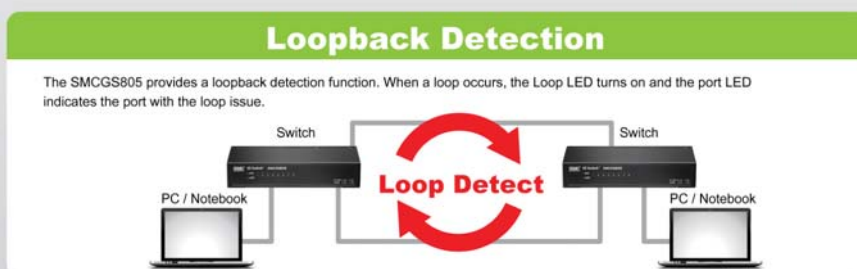
Support for Jumbo Packets

Support for Jumbo packets of up to 9K Bytes in size.

Auto MDI/MDI-X on Each Port

Support for Auto-MDI/MDIX means that no crossover cables are required. Straight-through cables can be used for all connections.

Application Diagram



Features

Physical Ports

8 10/100/1000BASE-T
DC power socket

Network Interface

10BASE-T (IEEE 802.3)
100BASE-TX (IEEE 802.3u)
1000BASE-T (IEEE 802.3ab)

Features

Jumbo Frames 9K
IEEE 802.3x Flow Control
Auto-MDI/MDIX
IEEE 802.1p QoS
IEEE 802.3az
Loopback Detection/Prevention
Private VLAN

Switching Database

8K MAC address entries

Memory Buffer

1M Bits (128K Bytes) per device

Throughput

11.9 Mpps

LED

System: PWR/LOOP
Port: Link/Act

Power Supply

External power adapter 5V/1A

Mechanical

Dimensions (W x D x H): 140.0 x 77 x 27 mm (5.51 x 3.01 x 1.06 in)

Weight

275 g (0.60 lb)

Electromagnetic Compatibility

CE Class A
FCC Class A

Electromagnetic Compatibility

CE Mark
FCC Class A

Environmental Specification

Temperature: 0°C to 45°C (32°F~112°F)
Humidity: 10% to 90% (non-condensing)

Safety

LVD (EN60950)

Immunity

EN55024
IEC61000-4/2/3/4/5/6/8/11

Emissions

FCC Class A, EN55022/EN61000-3-2/3

Warranty

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

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