SMCGS805
EZ Switch™ 8-Port Gigabit Ethernet Switch

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

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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 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.

Contact

Edge-Core Networks Corporation
Worldwide Corporate and Sales Headquarters
No. 1 Creation Road III,
Hsinchu Science Park,
30077, Taiwan, R.O.C.
Tel: +866 3 5638888 Fax: +866 3 6686111

Singapore
15 Enggor Street
#10-04, Realty Centre
Singapore 079716
Tel: 65-63387667 Fax: 65-63387767

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