

SMCGS803

EZ Switch™ 10/100/1000 Mbps
8-Port Gigabit Ethernet Switch



Product Overview

The EZ Switch 10/100/1000 SMCGS803 switch provides the new loopback detection features that improves the network environment and reduces network maintenance costs. The SMCGS803 switch uses the internal power design, with up to 10 times the speed of 100Mbps networks, the switch reduces transfer times of large data files and boosts bandwidth-intensive applications, thereby significantly enhancing overall network performance. Jumbo frame support enables more efficient data transfers with data packets up to 9K Bytes in size. The switch is easy to install and an ideal solution for network migration with its 10/100/1000 Mbps Auto MDI/MDIX ports. Not only are ports triple-speed, all ports can be connected to either a workstation or another switch, without the need for crossover cables. Supporting non-blocking wire-speed throughput, the switch is built to handle the growing performance needs of bandwidth-hungry applications in today's networks.

Key Features and Benefits

Loopback Detection

When a loop occurs, the switch indicates 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/MDI-X means that no crossover cables are required. Straight-through cables can be used for all connections.

EEE Support

The switch supports the IEEE 802.3az Energy-Efficient Ethernet (EEE) feature to save power consumption.

Fan-less Design

The switch supports a fan-less design, providing a silent operating environment.

IEEE 802.1p QoS

When the switch receives a frame tagged with an 802.1p priority, it places it into the appropriate priority output queue. Priority queuing is needed in implementations where time-sensitive data, such as voice and video, are streamed across the network.

Application Diagram

Loopback Detection

The SMCGS803 provides a loopback detection function. When a loop occurs, the Loop LED turns on and the port LED indicates the port with the loop issue.



Prevention Solution

When a loop occurs, the port LED flashes twice per second to indicate the port with the loop issue.



Features

Physical Ports

8 10/100/1000 Mbps auto-negotiating RJ-45 ports

Network Interface

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

Feature

Jumbo Frames 9K Bytes
IEEE 802.1p QoS
IEEE 802.3x Flow Control
Auto MDI/MDI-X
IEEE 802.3az
Loopback Detection

LED

Power
Link/Activity
Loop

Switch Database

8K MAC address entries

Buffer Memory

128K Bytes

Switching Capacity

SMCGS803: 16 Gbps

Power Requirement

100-240V~50/60Hz

Frame Filter Rate

10BASE-T: 14881 pps/port
100BASE-TX: 148810 pps/port
1000BASE-T: 1488100 pps/port

Frame Forwarding Rate

10BASE-T: 14881 pps/port
100BASE-TX: 148810 pps/port
1000BASE-T: 1488100 pps/port

Throughput

SMCGS803: 11.9 Gbps

Dimensions

190 x 120 x 35 mm (7.5 x 4.72 x 1.38 in)

Weight

SMCGS803: 0.69 kg (1.52 lbs)

Electromagnetic Compatibility

CCC
CE Mark
FCC Class A
BSMI

Immunity

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

Emissions

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

Safety

LVD (EN60950)

Temperature

Operating Temperature: 0°C~40°C (32°F~104°F)
Operating Humidity: 10%~90% non-condensing
Storage Temperature: -40°C~70°C (-40°F~158°F)
Storage Humidity: 10%~90% non-condensing

Warranty

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

©2013 SMC Networks. EZ Switch[™] is a trademark of SMC Networks. Other trademarks or registered trademarks are the property of their respective owners. Information is subject to change without notice. All rights reserved.

Contact



Edge-Core Networks Corporation

Worldwide Corporate and Sales Headquarters

No. 1 Creation Road III,

Hsinchu Science Park,

30077, Taiwan, R.O.C.

Tel: +886 3 5638888 Fax: +886 3 6686111



Singapore

15 Enggor Street

#10-04, Realty Centre

Singapore 079716

Tel: 65-63387667 Fax: 65-63387767

Check www.smc-asia.com or www.smc.com for your local country contact information

Connect Your World ...

Switches | Wireless | Broadband | Carrier Ethernet | Network Management

www.smc.com

www.smc-asia.com