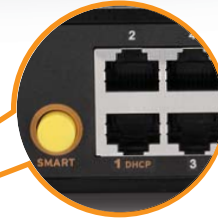


## SMCGS1610/SMCGS2410 EZ Switch™ 10/100/1000 Mbps 16/24-Port Gigabit Ethernet Plus Switch



Enable

Disable

**Push to Smart:**

1. DHCP Prevention
2. Loopback Detection/Prevention
3. IGMP Snooping v1/v2

### Product Overview

The EZ Switch 10/100/1000 SMCGS1610 and SMCGS2410 are the first available unmanaged switches that can be transformed into smart switches with the use of a single button. DHCP prevention combined with loopback detection and prevention, improves the network environment and reduces network maintenance costs. The switches also provide DoS attack protection, minimizing virus attacks and increasing network uptime.

These switches provide Gigabit Ethernet connectivity from the network backbone all the way to the edge and to individual desktops. With up to 10 times the speed of 100 Mbps networks, these switches reduce transfer times of large data files and boost 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 switches are easy to install and an ideal solution for network migration with their 10/100/1000 Mbps Auto MDI/MDIX ports. Not only are ports triple-speed, all ports can be either connected to a workstation or another switch, without the need for crossover cables. Supporting non-blocking wire-speed throughput, the switches are built to handle the growing performance needs of bandwidth-hungry applications in today's networks.

### Key Features and Benefits

#### Smart Button

The SMCGS1610/SMCGS2410 are the first available unmanaged switches that can be transformed into smart switches with the use of a single button.

#### DHCP Prevention

DHCP Prevention protects the company's valid DHCP server from any rogue DHCP servers in the network. When you push the Smart button to enable the DHCP Prevention feature, only the DHCP Port can connect to the valid DHCP server.

#### 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.

#### DoS Attack Protection

The switch detects some DoS attacks and provides protection.

#### IGMP Snooping v1/v2

The switches support IGMP snooping v1/v2 to enable smooth video streaming.

#### EEE Support

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

#### Fan-less Design

The switches support a fan-less design, providing a silent operating environment.

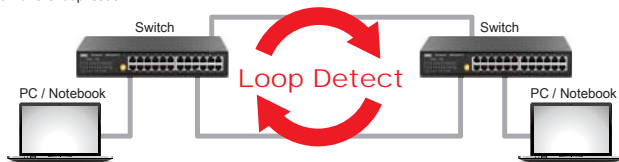
#### IEEE 802.1p QoS

When the switches receive a frame tagged with an 802.1p priority, they place 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

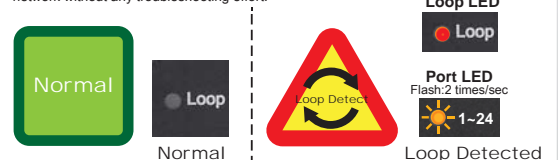
#### Loopback Detection

The SMCGS2410 can provide 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 loop port is blocked automatically, securing the company network without any troubleshooting effort.



## Features

### Physical Ports

SMCGS1610  
16 10/100/1000 Mbps auto-negotiating RJ-45 ports  
SMCGS2410  
24 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/MDIX  
IEEE 802.3az  
Loopback Detection/ Prevention  
DHCP Prevention  
IGMP Snooping v1/v2  
DoS Attack Protection

### LED

Power  
Link/Activity  
Loop

### Switch Database

16K MAC address entries

### Buffer Memory

Internal Memory: 64 K  
Flash: 2M

### Switching Capacity

SMCGS1610: 32 Gbps  
SMCGS2410: 48 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

SMCGS1610: 23.8 Mpps  
SMCGS2410: 35.7 Mpps

### Dimensions

280 x 180 x 44 mm (11.0 x 7.1 x 1.7 in)

### Weight

SMCGS1610: 1.54 kg (3.40 lbs)  
SMCGS2410: 1.66 kg (3.65 lbs)

### Electromagnetic Compatibility

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](http://www.smc.com) for the warranty terms in your country/region.

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