

# SMCGS1601

## EZ Switch™ 10/100/1000 Mbps

### 16 Port Unmanaged Gigabit Ethernet Switches

#### Product Overview

SMC introduces the latest Gigabit switch to the EZ Switch 10/100/1000 family – the SMCGS1601. This switch provides 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, this 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 9 KBytes in size. The SMC EZ Switch is easy to install and an ideal solution for network migration, as it is equipped with 10/100/1000 Mbps Auto MDI/MDIX ports. Not only is each port triple-speed, all ports can be either connected to a workstation or another switch, without the need for cross-over cables. Providing non-blocking wire-speed throughput, the switch can handle the growing performance needs of emerging bandwidth-hungry applications.



**802.3az**  
**Green Saving**

#### Key Features and Benefits

##### IEEE 802.3az Energy-Efficient Ethernet Support

When two 802.3az-compliant switches are connected, up to 49%\* of power consumption can be saved.

##### Support IEEE 802.1p Quality of Service

When the switch receives a frame tagged with an 802.1p priority tag, it is placed in the appropriate priority queue. Priority queuing is useful in environments where time-sensitive data, such as voice and video, are streamed across the network.

##### Auto MDI/MDI-X on Each Port

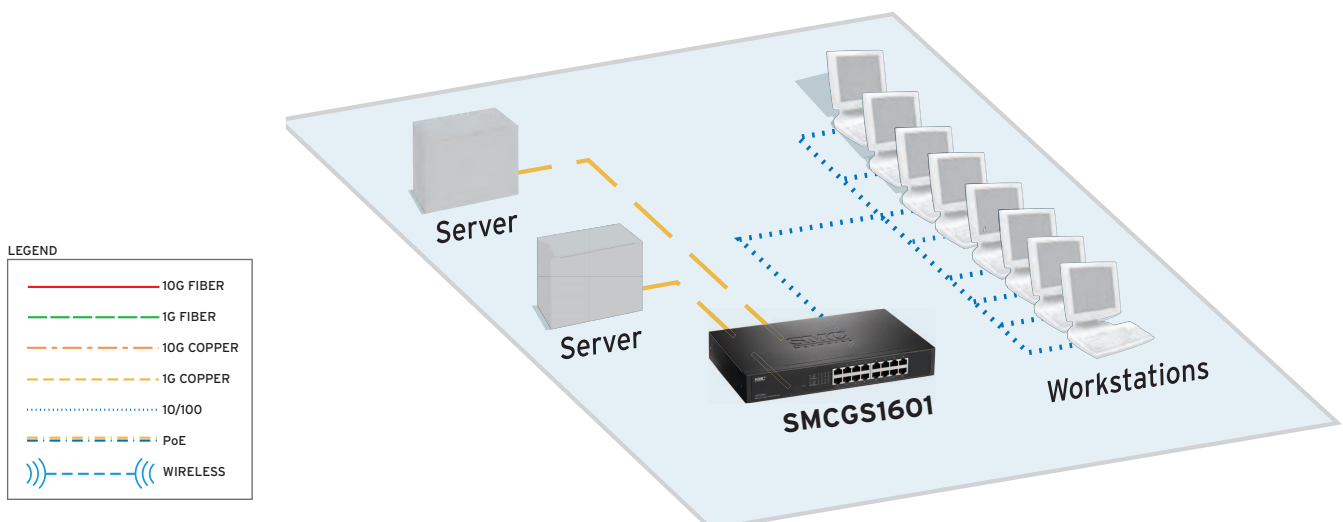
Support for Auto MDI/MDIX means that no crossover cables are required. Straight-through cables can be used for all connections.

##### Metal Chassis Fan-less Design

The compact, rack mountable metal chassis is ideal for desktop or rack mounting. In addition, the lack of fans provides silent operation.

\* According to an IEEE 802.3az Energy Efficient Ethernet measurement test conducted by an independent testing company, the SMCGS1601 and SMCGS2401 save up to 49% when each is compared to a non-Green Ethernet switch.

#### Application Diagram



## Features

### PHYSICAL PORTS

SMCGS1601:

- 16 x 10/100/1000 Mbps auto-negotiation RJ-45 ports

### NETWORK INTERFACE

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

### FEATURE

- Jumbo Frames 9 KBytes
- IEEE 802.1p QoS
- IEEE 802.3x Flow Control
- Auto-MDI/MDIX
- IEEE 802.3az

### LED

- Power
- Link/Activity

### SWITCHING DATABASE

- SMCGS1601: 8K MAC address entries

### BUFFER MEMORY

- SMCGS1601: 256 Kbytes/device

### SWITCHING CAPACITY

- SMCGS1601: 32 Gbps

### POWER REQUIREMENT

- SMCGS1601: 100-240V~50/60Hz, 0.6A

### FRAME FILTER RATE

- 10BASE-T: 14881 pps/port
- 100BASE-TX: 148810 pps/port
- 1000BASE-T: 1488095 pps/port

### FRAME FORWARDING RATE

- 10BASE-T: 14881 pps/port
- 100BASE-TX: 148810 pps/port
- 1000BASE-T: 1488095 pps/port

### THROUGHPUT

- SMCGS1601: 23.8 Gbps

### DIMENSIONS

- 294 x 180 x 44 mm (11.6 x 7.1 x 1.7 in)

### WEIGHT

- SMCGS1601: 1.45 kg (3.19 lbs)

### ELECTROMAGNETIC COMPATIBILITY

- CE Mark
- FCC Class A
- KCC

### 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: 5%~90% non-condensing

### WARRANTY

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

## Contact

Worldwide Corporate and Sales Headquarters  
No. 1 Creation Road III,  
Hsinchu Science Park,  
30077, Taiwan, R.O.C.  
Tel: +886 3 5770270 Fax: +886 3 5780764

Singapore  
1 Coleman Street  
#07-09, The Adelphi  
Singapore 179803  
Tel: 65-63387667 Fax: 65-63387767

Check [www.smc-asia.com](http://www.smc-asia.com) for your local country contact information

Europe/Africa  
C/Fructuós Gelabert 6-8 2º, 2ª,  
Edificio Conata II,  
08970 Sant Joan Despí  
Barcelona - Spain  
Phone: +34 93 477 4920

Check [www.smc.com](http://www.smc.com) for your local country contact information

©2011 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.