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.

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 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 SMCF1601 and SMCF2401 save up to 49% when each is compared to a non-Green Ethernet switch.
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 for the warranty terms in your country.

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