EZ Switch™ 10/100/1000
User Guide

From SMC’s EZ line of low-cost workgroup LAN solutions
Information furnished by SMC Networks, Inc. (SMC) is believed to be accurate and reliable. However, no responsibility is assumed by SMC for its use, nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of SMC. SMC reserves the right to change specifications at any time without notice.

Copyright © 2014 by

SMC Networks, Inc.

No. 1, Creation Road III,

Hsinchu Science Park,

30077, Taiwan, R.O.C.

All rights reserved

Trademarks:

SMC is a registered trademark; and EZ Switch, TigerStack and TigerSwitch are trademarks of SMC Networks, Inc. Other product and company names are trademarks or registered trademarks of their respective holders.
WARRANTY AND PRODUCT REGISTRATION

To register SMC products and to review the detailed warranty statement, please refer to the Support Section of the SMC Website at http://www.smc.com.
FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

◆ Reorient or relocate the receiving antenna
◆ Increase the separation between the equipment and receiver
◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
◆ Consult the dealer or an experienced radio/TV technician for help

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.
Declaration of Conformity (DoC) can be obtained from www.smc.com -> support -> download

This information technology equipment complies with the requirements of the Council Directive 89/336/EEC on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility and 73/23/EEC for electrical equipment used within certain voltage limits and the Amendment Directive 93/68/EEC. For the evaluation of the compliance with these Directives, the following standards were applied:

RFI Emission:
- Limit according to EN 55022:2010
- Limitation of voltage fluctuation and flicker in low-voltage supply system according to EN 61000-3-3:2008

Immunity:
- Product family standard according to EN 55024:2010
- Electrostatic Discharge according to IEC 61000-4-2: 2008
- Radio-frequency electromagnetic field according to IEC 61000-4-3: 2010
- Electrical fast transient/burst according to IEC 61000-4-4: 2012
- Surge immunity test according to IEC 61000-5: 2005
- Immunity to conducted disturbances, Induced by radio-frequency fields: IEC 61000-4-6: 2008
- Power frequency magnetic field immunity test according to IEC 61000-4-8: 2009
- Voltage dips, short interruptions and voltage variations immunity test according to IEC 61000-4-11: 2004

LVD:

We hereby certify that this product has been tested by SMC and complies with FCC official limits. The product can be marketed in the US in accordance with FCC Rules based on standards 47 CFR Part 2 and Part 15 Class A Equipment Regulations. The tests were performed in accordance with the procedures from ANSI C63.4-2009. The test data and results are issued on test report no. ACSF13133.
CLASS A
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques,” NMB-003 édictée par le ministère des Communications.

PLEASE READ THE FOLLOWING SAFETY INFORMATION CAREFULLY BEFORE INSTALLING THE SWITCH:
WARNING: Installation and removal of the unit must be carried out by qualified personnel only.

◆ This guide is intended for use by network administrators who are responsible for setting up and installing network equipment; consequently it assumes a basic working knowledge of LANs (Local Area Networks).

◆ The unit must be connected to an earthed (grounded) outlet to comply with international safety standards.

◆ Do not connect unit to an A.C outlet (power supply) without an earth (ground) connection.

◆ The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.

◆ This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 60950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.

SAFETY PRECAUTIONS
Read the following information carefully before operating the device. Please follow the following precaution items to protect the device from risks and damage caused by fire and electric power:

◆ Use the power adapter that is included with the device package.
◆ Pay attention to the power load of the outlet or prolonged lines. An overburdened power outlet or damaged cords and plugs may cause electric shock or fire. Check the power cords regularly, if you find any damage, replace it at once.

◆ Proper space for heat dissipation is necessary to avoid any damage caused by device overheating. The ventilation holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these ventilation holes.

◆ Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid placing the device in direct sunshine.

◆ Do not put this device close to a place which is damp or wet. Do not spill any fluid on this device.

◆ Please follow the instructions in the user manual/quick install guide carefully to connect the device to your PC or other electronic product. Any invalid connection may cause a power or fire risk.

◆ Do not place this device on an unstable surface or support.

PRÉCAUTIONS DE SÉCURITÉ
Lisez attentivement les informations suivantes avant d’utiliser votre appareil. Respectez toutes les précautions afin de protéger l’appareil des risques et dégâts provoqués par un incendie et l’alimentation électrique :

◆ Utilisez exclusivement l’adaptateur d’alimentation fourni avec cet appareil.

◆ Faites attention à la puissance de charge de la prise de courant ou des rallonges électriques. Une prise surchargée ou des cordons et des fiches endommagés peuvent provoquer une électrocution ou un incendie. Vérifiez régulièrement votre câble électrique. Si vous constatiez le moindre défaut, remplacez-le immédiatement.

◆ Il est primordial de laisser suffisamment d’espace autour de l’appareil pour permettre la dissipation de la chaleur et éviter les dégâts provoqués par une surchauffe de l’appareil. Les orifices de ventilation de l’appareil sont conçus pour permettre la dissipation thermique et garantir le bon fonctionnement de l’appareil. Ne couvrez jamais ces orifices.

◆ Ne placez pas cet appareil à proximité d’une source de chaleur ou dans un endroit exposé à des températures élevées. Evitez également de l’exposer à la lumière directe du soleil.
Compliances and safety statements

◆ Ne placez pas cet appareil à proximité d’un lieu humide ou mouillé. Prenez garde à ne renverser aucun liquide sur cet appareil.

◆ Merci de suivre les instructions du manuel d’utilisateur / guide d’installation rapide attentivement pour connecter l’appareil à votre PC ou à tout autre produit électronique. Toute connexion non valide peut provoquer un problème électrique ou un risque d’incendie.

◆ Ne placez pas cet appareil sur une surface ou un support instable.

Sicherheitsmaßnahmen
Lesen Sie vor der Inbetriebnahme des Gerätes aufmerksam die nachstehenden Informationen. Bitte befolgen Sie die nachstehenden Sicherheitsmaßnahmen, damit das Gerät nicht beschädigt wird oder Gefahren durch Brand oder elektrische Energie entstehen:

◆ Verwenden Sie nur das beim Gerät mitgelieferte Netzteil.

◆ Achten Sie auf die Last der Steckdose oder des Verlängerungskabels. Eine überlastete Steckdose oder beschädigte Kabel und Stecker können Stromschläge und Brand verursachen. Prüfen Sie die Netzkabel regelmäßig. Ersetzen Sie sie umgehend, falls sie beschädigt sind.


◆ Stellen Sie dieses Gerät nicht in der Nähe von Wärmequellen oder an Orten mit hohen Temperaturen auf. Platzieren Sie das Gerät nicht im direkten Sonnenlicht.

◆ Stellen Sie dieses Gerät nicht an feuchten oder nassen Orten auf. Achten Sie darauf, keine Flüssigkeiten über dem Gerät zu verschütten.

◆ Befolgen Sie die Hinweise im Benutzerhandbuch (bzw. in der Kurzanleitung) zum Anschluß des Gerätes an einen PC oder ein anderes Elektrogerät. Jegliche unzulässige Verbindung birgt die Gefahr von Stromschlägen und Brandgefahr.

◆ Platzieren Sie dieses Gerät nicht auf einer instabilen Oberfläche oder Halterung.
PRECAUCIONES DE SEGURIDAD
Lea la siguiente información detenidamente antes de utilizar el dispositivo. Siga las indicaciones de precaución que se mencionan a continuación para proteger el dispositivo contra riesgos y daños causados por el fuego y la energía eléctrica:

◆ Utilice el adaptador de alimentación incluido en el paquete del dispositivo.

◆ Preste atención a la carga de potencia de la toma de corriente o de los alargadores. Una toma de corriente sobrecargada o líneas y enchufes dañados pueden provocar descargas eléctricas o un incendio. Compruebe los cables de alimentación con cierta frecuencia. Si detecta algún daño, reemplácelos inmediatamente.

◆ Deje un espacio adecuado para que se disipe el calor y evitar así cualquier daño en el dispositivo causado por sobrecalentamiento. Los orificios de ventilación del dispositivo están diseñados para disipar el calor y garantizar que dicho dispositivo funciona con normalidad. No tape estos orificios de ventilación.

◆ No coloque este dispositivo cerca de un lugar donde haya una fuente de calor o temperaturas elevadas. Evite exponer el dispositivo a la luz solar directa.

◆ No coloque este dispositivo junto a un lugar húmedo o mojado. No derrame ningún fluido sobre el dispositivo.

◆ Por favor, siga cuidadosamente las instrucciones que figuran en el manual/guía de instalación rápida para conectar el dispositivo a su PC o a cualquier otro producto electrónico. Cualquier conexión no válida podría causar riesgo de descarga o de incendio.

◆ No coloque este dispositivo en una superficie o soporte inestable.

◆ Precauções de Segurança

◆ Lea atentamente as seguintes informações antes de utilizar o dispositivo. Respeite as seguintes indicações de segurança para proteger o dispositivo contra riscos e danos causados por fogo e energia eléctrica:

◆ Utilize o transformador incluído na embalagem do dispositivo.
Respeite a potência da tomada elétrica e das extensões. Uma tomada elétrica sobrecarregada ou cabos e fichas danificados podem causar choques elétricos ou fogo. Verifique regularmente os cabos de alimentação. Caso algum se encontre danificado, substitua-o imediatamente.

É necessário deixar algum espaço livre em volta do dispositivo para dissipação de calor, de forma a evitar danos causados pelo sobreaquecimento do dispositivo. Os orifícios de ventilação do dispositivo foram concebidos para dissipar o calor e assegurar que o mesmo funciona normalmente. Não bloqueie esses orifícios de ventilação.

Nãocoloque este dispositivo junto a fontes de calor ou em locais com temperaturas elevadas. Evite colocar o dispositivo sob luz solar directa.

Nãocoloque este dispositivo junto a locais molhados ou com humidade. Não derrame líquidos sobre o dispositivo.

Por favor siga atentamente as instruções do manual / guia de instalação rápida para conectar o dispositivo ao seu PC ou a qualquer outro dispositivo electrónico. Atenção que qualquer tipo de ligação inválida pode originar risco de choque elétrico ou de incêndio.

Nãocoloque este dispositivo numa superfície ou suporte instáveis.
ABOUT THIS GUIDE

PURPOSE
This guide details the hardware features of the switch, including the physical and performance-related characteristics, and how to install the switch.

AUDIENCE
The guide is intended for use by network administrators who are responsible for installing and setting up network equipment; consequently, it assumes a basic working knowledge of LANs (Local Area Networks).

CONVENTIONS
The following conventions are used throughout this guide to show information:

**NOTE:** Emphasizes important information or calls your attention to related features or instructions.

**CAUTION:** Alerts you to a potential hazard that could cause loss of data, or damage the system or equipment.

**WARNING:** Alerts you to a potential hazard that could cause personal injury.

REVISION HISTORY
This section summarizes the changes in each revision of this guide.

SEPTEMBER 2014 REVISION
This is the first revision of this guide.
# CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty and Product Registration</td>
<td>4</td>
</tr>
<tr>
<td>Compliances and Safety Statements</td>
<td>5</td>
</tr>
<tr>
<td>About This Guide</td>
<td>12</td>
</tr>
<tr>
<td>Contents</td>
<td>13</td>
</tr>
<tr>
<td><strong>1 Introduction</strong></td>
<td>15</td>
</tr>
<tr>
<td>Overview</td>
<td>15</td>
</tr>
<tr>
<td>Features</td>
<td>15</td>
</tr>
<tr>
<td>PoE Features</td>
<td>16</td>
</tr>
<tr>
<td><strong>2 Hardware Description</strong></td>
<td>17</td>
</tr>
<tr>
<td>Front Panel</td>
<td>17</td>
</tr>
<tr>
<td>Port and System Status LEDs</td>
<td>17</td>
</tr>
<tr>
<td>Rear Panel</td>
<td>18</td>
</tr>
<tr>
<td>RJ-45 Ports</td>
<td>18</td>
</tr>
<tr>
<td>Power Connector</td>
<td>18</td>
</tr>
<tr>
<td><strong>3 Installing the Switch</strong></td>
<td>19</td>
</tr>
<tr>
<td>Package Contents</td>
<td>19</td>
</tr>
<tr>
<td>Precautions</td>
<td>19</td>
</tr>
<tr>
<td>Safety Requirements</td>
<td>19</td>
</tr>
<tr>
<td>Location Requirements</td>
<td>20</td>
</tr>
<tr>
<td>Powering On</td>
<td>20</td>
</tr>
<tr>
<td>Connecting Network Devices</td>
<td>21</td>
</tr>
<tr>
<td>Cabling Guidelines</td>
<td>21</td>
</tr>
<tr>
<td>Connecting to PCs, Servers, Hubs and Switches</td>
<td>21</td>
</tr>
<tr>
<td><strong>4 Product Application</strong></td>
<td>22</td>
</tr>
</tbody>
</table>
A  TROUBLESHOOTING  24

Diagnosing Switch Indicators  24
   The Power LED is Off  24
   The Link/Act LED is Off when a Device is Connected to the Corresponding Port  24
Power and Cooling Problems  24
Installation  25

B  SPECIFICATIONS  26

Physical Characteristics  26
INTRODUCTION

OVERVIEW

The EZ Switch 10/100/1000 SMCGS501P PoE switch provides five 10/100/1000 Mbps auto-negotiating RJ-45 ports. Each port on the switch support auto MDI/MDI-X, which eliminates the need for crossover cables or uplink ports. The switch is plug-and-play; any port can be connected to a server, a hub, or a switch, using straight-through or crossover cable.

FEATURES

◆ Complies with IEEE 802.3, IEEE 802.3u, and IEEE 802.3ab standards

◆ Five 10/100/1000 Mbps auto-negotiating RJ-45 ports supporting Auto-MDI/MDIX

◆ Supports PoE power up to 15.4/30 Watts on port 1

◆ PoE total power budget 30 Watts for PoE port 1

◆ Supports IEEE 802.3x flow control for full-duplex mode and backpressure for half-duplex mode

◆ Supports IEEE 802.3az Energy-Efficient Ethernet, which can save up to 75% of power consumption

◆ LED indicators for monitoring power, link/activity, PoE

◆ Operating: 0°C~50°C (32°F~122°F)
POE FEATURES

The SMCGS501P can provide up to 30 Watts of power to one attached device, such as a VoIP phone, wireless access point, or surveillance camera, etc, over existing Cat. 5 cable. The switch can deliver up to 15.4/30 Watts on Port 1, which can eliminate the need for an individual power source for the attached device, saving on costs for a power cable and avoiding power outlet availability issues.
This chapter describes the front panel, rear panel, and LED indicators of the switch.

FRONT PANEL

The front panel of SMCGS501P consists of switch LED indicators.

Figure 1: SMCGS501P Switch Front Panel

PORT AND SYSTEM STATUS LEDS

This switch includes a display panel for key system and port indications that simplify installation and network troubleshooting. The LEDs, which are located on the front panel, are described in the following table.

Table 1: System and Port Status LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>Condition</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR</td>
<td>On Green</td>
<td>The internal power supply is operating normally.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>The unit has no power connected.</td>
</tr>
<tr>
<td>Link/Act</td>
<td>On Green</td>
<td>Port has established a valid 10/100 Mbps network connection. Flashing indicates activity.</td>
</tr>
<tr>
<td></td>
<td>On Amber</td>
<td>Port has established a valid 1000 Mbps network connection. Flashing indicates activity.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>There is no valid link on the port.</td>
</tr>
</tbody>
</table>
**REAR PANEL**

**Figure 2: SMCGS501P Switch Rear Panel**

---

### RJ-45 PORTS

The switch contains five 1000BASE-TX RJ-45 ports. All ports support automatic MDI/MDI-X operation, so you can use straight-through cables for all network connections to PCs or servers, or to other switches or hubs.

Each of these ports support auto-negotiation, so the optimum transmission mode (half or full duplex), and data rate (10, 100 or 1000 Mbps) is selected automatically.

Each port also supports IEEE 802.3x auto-negotiation of flow control, so the switch can automatically prevent port buffers from becoming saturated.

Port 1 on the switch supports IEEE 802.3af/at PoE and can supply power to one attached device. Ports 2-5 do not support PoE.

---

### POWER CONNECTOR

The switch must be powered with its supplied power adapter. Failure to do so results in voiding of any warranty supplied with the product. The power adapter automatically adjusts to any voltage between 100~240 volts at 50 or 60 Hz, and supplies 51 volts DC power to the unit. No voltage range settings are required.
Before installing the switch, verify that you have all the items listed under “Package Contents.” If any of the items are missing or damaged, contact your local SMC distributor. Also be sure you have all the necessary tools and cabling before installing the switch.

**PACKAGE CONTENTS**

The following contents should be found in your package:

- One SMCGS501P Switch
- One AC-DC power adapter
- One power cord
- One wall mount kit
- This User Guide

**PRECAUTIONS**

To ensure a long-term and stable performance of the switch, pay attention to the following before installation.

**SAFETY REQUIREMENTS**

- Before cleaning the switch, disconnect the power supply. Do not clean the switch using a wet cloth, and never use any other liquid for cleaning.
- Take waterproof measures during storage, transportation and operation of the equipment.
◆ Use only the AC-DC power adapter and power cord provided with the switch.

◆ Make sure the voltage of the power supply meets the requirement of the input voltage of the switch.

◆ Do not push any objects into the openings of the switch.

◆ Ensure the vent holes are well ventilated and unblocked.

◆ Do not open or remove the cover of the switch.

LOCATION REQUIREMENTS
When you choose a location for the switch, follow these guidelines:

◆ Install the switch on a flat and stable surface that can support the entire weight of the switch with all fittings.

◆ Locate the switch far from strong electromagnetic field generators (such as motors), vibration, dust, and direct exposure to sunlight.

◆ To ensure adequate air flow around the switch. At least 10 cm (4 inches) of space at the front and rear of the switch is needed for ventilation.

◆ Make sure that the switch will be accessible and that the cables can be easily connected.

◆ Position the switch away from water and moisture sources, be sure to provide an acceptable temperature and humidity operating environment.

POWERING ON
The SMCGS501P switch is powered by connecting to an AC power supply using the included AC-DC power adapter. When powering on the switch, it automatically initializes and the LED indicators respond as follows:

1. All of the LED indicators flash momentarily for one second, which represents a resetting of the system.

2. The PWR LED indicator turns on green.
CONNECTING NETWORK DEVICES

This switch is designed to be connected to 10, 100 or 1000 Mbps network cards in PCs and servers, as well as to other switches and hubs.

CABLING GUIDELINES

The RJ-45 ports on the switch support automatic MDI/MDI-X pinout configuration, so you can use standard straight-through twisted-pair cables to connect to any other network device (PCs, servers, switches, routers, or hubs).

Each device requires an unshielded twisted-pair (UTP) cable with RJ-45 connectors at both ends. Use Category 5e or better for 1000BASE-T connections, Category 5 or better for 100BASE-TX connections, and Category 3 or better for 10BASE-T connections.

CONNECTING TO PCs, SERVERS, HUBS AND SWITCHES

1. Attach one end of a twisted-pair cable segment to the device’s RJ-45 connector.

2. Attach the other end of the cable segment to an available port on the switch.

   Make sure each twisted pair cable does not exceed 100 meters (328 ft) in length.

3. As each connection is made, the relevant port LED (on the switch) corresponding to each port will turn on green to indicate that the connection is valid.
The SMCGS501P is specially designed as part of a Multi-Service Operator (MSO) solution for an IPTV system. The Edge-Core ECS4510-12PD is a PoE PD (powered device) switch that can operate in a cost-effective combination with the SMCGS501P.

An SMCGS501P switch can supply 30 Watts of power to an ECS4510-12PD, which itself can provide power to an 802.3af-compliant device, such as an IP camera or wireless access point. When multiple SMCGS501P switches in the same network are connected to one ECS4510-12PD device, it provides multiple redundancy for the switch and supported PoE device.

**Figure 3: Applications**
# Power over Ethernet Powered Devices

## Table 2: Power over Ethernet Powered Devices

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Device Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3~5 Watts</td>
<td>Voice over IP phones</td>
<td>Enterprises can install PoE VoIP phones, ATA and other Ethernet/non-Ethernet end-devices connected to a central location where an un-interruptible power supply and power control system are installed.</td>
</tr>
<tr>
<td>6~12 Watts</td>
<td>Wireless LAN Access Points</td>
<td>Museums, sightseeing spots, airports, hotels, campuses, factories, and warehouses can install access points anywhere without limitations.</td>
</tr>
<tr>
<td>10~12 Watts</td>
<td>IP Surveillance</td>
<td>Enterprises, museums, campuses, hospitals, and banks can install IP cameras without any location limits - no need for an electrician to install AC sockets.</td>
</tr>
<tr>
<td>3~12 Watts</td>
<td>PoE Splitter</td>
<td>A PoE splitter splits the PoE 48 VDC from the Ethernet cable into a 5/12V DC power output. It frees device deployment from the restrictions of power outlet location, which eliminates the costs for additional AC wiring and reduces installation time.</td>
</tr>
</tbody>
</table>
A TROUBLESHOOTING

DIAGNOSING SWITCH INDICATORS

THE POWER LED IS OFF
◆ Make sure the AC-DC power adapter is connected to the switch and power source properly.

◆ Make sure the power source is ON.

THE LINK/ACT LED IS OFF WHEN A DEVICE IS CONNECTED TO THE CORRESPONDING PORT
◆ Make sure that the cable connectors are firmly plugged into the switch and the device.

◆ Make sure the connected device is turned on and working properly.

◆ The cable must be less than 100 meters long (328 feet).

◆ Check the port on the attached device and cable connections for possible defects. Replace the defective cable if necessary.

POWER AND COOLING PROBLEMS

If the power indicator does not turn on when the power cord is plugged in, you may have a problem with the power outlet, power cord, or AC-DC power adapter. However, if the unit powers off after running for a while, check for loose power connections, power losses or surges at the power outlet. If you still cannot isolate the problem, the internal power supply may be defective.
INSTALLATION

Verify that all system components have been properly installed. If one or more components appear to be malfunctioning (such as the power cord or network cabling), test them in an alternate environment where you are sure that all the other components are functioning properly.
PHYSICAL CHARACTERISTICS

STANDARDS
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE802.3ab 1000BASE-T
IEEE 802.3X Flow Control

FEATURES
IEEE 802.3x Flow Control
Auto MDI/MDI-X
Supports auto-negotiation of speed (10/100/1000 Mbps) and duplex mode (half/full)
Wire-speed packet filtering and forwarding rate
Store-and-forward architecture filters fragment & CRC error packets
IGMP snooping v1/v2

POE FEATURE
Support IEEE 802.3af/802.3at
Support Power to PD: 30 W
Total PoE Budget: 30 W
PoE Ports: 1 (Port 1)

NUMBER OF PORTS
5 10/100/1000 Mbps auto-negotiating RJ-45 ports

LED INDICATORS
System: PWR
Ports: Link/Act, PoE
APPENDIX B | Specifications
Physical Characteristics

**SWITCHING DATABASE**
2K MAC address entries

**BUFFER MEMORY**
2K Bits per device

**SWITCHING CAPACITY**
10 Gbps

**THROUGHPUT**
7.4 Mpps

**DIMENSIONS**
14.0 x 7.7 x 2.7 cm (5.51 x 3.03 x 1.06 in.)

**WEIGHT**
256 g (0.56 lbs)

**POWER SUPPLY**
AC Input: 100~240 V, 50/60 Hz
DC Output: DC 51 V, 0.8 A

**ELECTROMAGNETIC COMPATIBILITY**
CE
FCC

**SAFETY**
LVD (EN60950)
IMMUNITY
EN55024
IEC61000-4-2/3/4/5/6/8/11

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

TEMPERATURE
Operating: 0 to 50 °C (32 to 122 °F)
Storage: -40 to 70 °C (-40 to 158 °F)

HUMIDITY
Operating: 10% to 90% (non-condensing)
Storage: 5% to 90% (non-condensing)
ENGLISH
Please register your new SMC Product!
As a registered SMC customer, you are entitled to
technical support, special product offers and
educational information directly from SMC, but we
need your help. Please visit us on the Web at
www.smc.com to register your product.

SPANISH
¡Por favor registra tu nuevo producto SMC!
Como cliente certificado SMC, tienes derecho a
soporte técnico, ofertas especiales de producto y
formaciones directamente desde SMC, pero
necesitamos tu ayuda. Visítenos en la Web,
www.smc.com para registrar tu producto.

ITALIAN
Registra il tuo nuovo SMC Product!
Come cliente registrato, beneficiarai di supporto
tecnico, offerte speciali ed informazioni
direttamente da SMC, ma abbiamo bisogno
tuo aiuto. Per
favori visita il ns sito www.smc.com per registrare il
prodotto.

FRENCH
Veuillez enregistrer votre nouveau produit
SMC!
En tant que client SMC inscrit, vous avez accès au
support technique, à des offres spéciales de produits
des informations directes de la part de SMC, mais
nous avons besoin de votre aide. Veuillez visitez notre
site www.smc.com pour enregistrer votre produit.

DUTCH
Registreer uw SMC product direct!
Door uw product te registreren op onze website:
www.smc.com krijgt u technische
productondersteuning, productaanbiedingen, kennis
en vaardigheden direct van SMC Networks.

PORTUGUESE
Registe o seu novo produto SMC Networks!
Ao registar-se como cliente SMC Networks terá acesso
do suporte técnico, ofertas especiais de produtos e
informações exclusivas de produtos e
informações exclusivas da SMC Networks.
Visite o nosso site em www.smc.com e registe o seu
novo produto.

SWEDISH
Registrera din nya SMC-produkt!
Efter registrering som SMC-kund, får du teknisk support,
särskilda produkter erbjudanden och information direkt
från SMC, men vi behöver din hjälp. Besök oss på
www.smc.com och registrera din produkt.

简体中文
请注册新购买的SMC产品！
请到我们的网站上注册SMC产品；
成为我们的注册用户后，您可以直接从SMC获得我们的
技术支持, 特定的产品优惠政策(eNews)以及产品
教育资讯信息。
注册网站为：www.smc-asia.com/warranty
简体中文网站：www.smc-prc.com 中国区免费客户服务
热线：800-820-6000

عربي
يرجى تسجيل منتجك الجديد من SMC
إميل منتج في SMC لإمكانيات تسجيل
عند تسجيل منتجك الخاص بالمعلومات عن محرك
وإعلام منتجك الخاص والمعلومات المعنوية
، ولننا تحتاج إلى زيارة موقع SMC
الإلكتروني على: www.smc-asia.com
SMCGS501P

Headquarters
No. 1, Creation Rd. III
Hsinchu Science Park
Taiwan 30077
Tel: +886 3 563 8888
Fax: +886 3 668 6111

English: Technical Support information available at www.smc.com
Deutsch: Technischer Support und weitere Information unter www.smc.com
Español: En www.smc.com Ud. podrá encontrar la información relativa a servicios de soporte técnico
Français: Informations Support Technique sur www.smc.com
Português: Informações sobre Suporte Técnico em www.smc.com
Italiano: Le informazioni di supporto tecnico sono disponibili su www.smc.com
Svenska: Information om Teknisk Support finns tillgängligt på www.smc.com
Nederlands: Technische ondersteuningsinformatie beschikbaar op www.smc.com
Polski: Informacje o wsparciu technicznym są dostępne na www.smc.com
Čeština: Technická podpora je dostupna na www.smc.com
Magyar: Műszaki tamogat informacio elerhető on www.smc.com
简体中文: 技术支持讯息可通过www.smc-prc.com查询
繁體中文: 產品技術支援與服務請上 www.smcnetworks.com.tw
ไทย: สามารถขอข้อมูลทางด้านเทคนิคได้ที่ www.smc-asis.com
한국어: 기술지원관련 정보는 www.smcnetworks.co.kr 을 참고하시기 바랍니다

INTERNET
E-mail address: www.smc.com -> Support -> By email
Driver updates: www.smc.com -> Support -> Downloads

Declaration of Conformity (DoC) can be obtained from www.smc.com -> support -> download