

**Compact Industrial 5-/8-Port  
Gigabit Ethernet Switch**

**IGS-500T/IGS-800T**

User's Manual


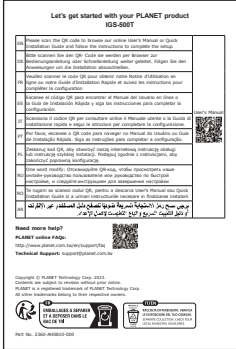


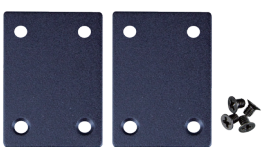
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# 1. Package Contents

Thank you for purchasing PLANET Compact Industrial 5-port Gigabit Ethernet Switch, IGS-500T. In the following sections, the term **“Industrial Gigabit Ethernet Switch”** means the IGS-500T.

Open the box of the Industrial Gigabit Ethernet Switch and carefully unpack it. The box should contain the following items:

Industrial Gigabit Ethernet Switch x 1	QR Code Sheet x 1	
		
DIN-rail Kit x 1	RJ45 Dust Caps x 5/x 8	Wall-mount Kit x 1
		

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

## 2. Product Specifications

Model	IGS-500T	IGS-800T
Hardware Specifications		
Copper Ports	<b>5</b> 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports	<b>8</b> 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2
Alarm	One relay output for power failure. Alarm relay current carry ability: 1A@DC 24V	NA
Power Requirements	<b>9~48V DC</b> , redundant power with reverse polarity protection function, <b>24V AC</b> power support	
Power Consumption (Ethernet Full Loading)	Max. 1.2 watts/4.09BTU	Max. 2.88 watts/9.83BTU
Dimensions (W x D x H)	30 x 70 x 104 mm	41 x 70 x 115 mm
Weight	264g	305g
Enclosure	IP30 metal case	
Installation	DIN-rail kit and wall-mount kit	
ESD Protection	6KV	
EFT Protection	6KV	
Switch Specifications		
Switch Architecture	Store-and-Forward	
Switch Fabric	10Gbps	16Gbps
Throughput (packet per second)	7.4Mpps@64bytes	11.9Mpps@64bytes
Address Table	2K entries	4K entries
Buffer Memory	4M bits on-chip buffer memory	

Jumbo Frame	9Kbytes
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.1p Class of Service
Environment	
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5~90% (non-condensing) Storage: 5~90% (non-condensing)

### 3. Hardware Introduction

#### 3.1 Switch Front Panel

The front Panels of the Industrial Gigabit Ethernet Switches consist of Ethernet interfaces and LED indicators.

##### ■ Front View

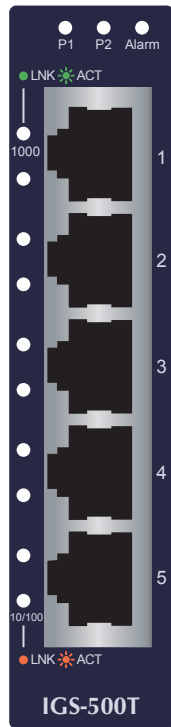


Figure 1: IGS-500T Front View

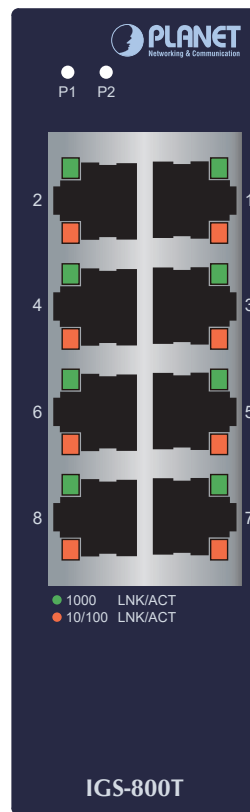


Figure 2: IGS-800T Front View

### 3.2 LED Definition:

LED	Color	Function
P1	Green	Lights to indicate power input 1 has power.
P2	Green	Lights to indicate power input 2 has power.
Alarm (IGS-500T only)	Red	Lights to indicate that power 1 or power 2 has failed.
1000 LNK/ACT	Green	Lights to indicate the port is running at 1000Mbps and successfully established.
		Blinks to indicate that the Switch is actively sending or receiving data over that port.
10/100 LNK/ACT	Amber	Lights to indicate the port is running at 10/100Mbps and successfully established.
		Blinks to indicate that the Switch is actively sending or receiving data over that port.

### 3.3 Switch Upper Panel

The upper panels of the Industrial Gigabit Ethernet Switches consist of one terminal block connector within two power input.

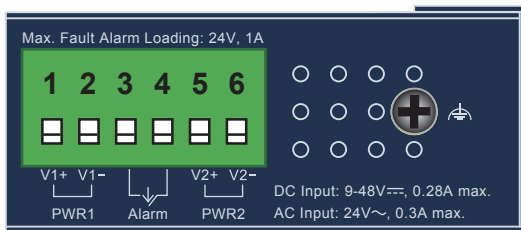


Figure 3: IGS-500T Top View

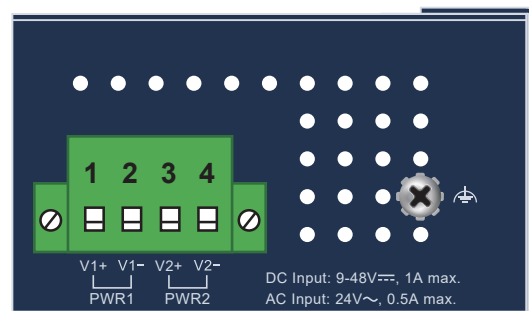




Figure 4: IGS-800T Top View

### 3.4 Wiring the Power Inputs

The terminal block connector on the top panel of Industrial Gigabit Ethernet Switch is used for two DC redundant power inputs. Please follow the steps below to insert the power wire by professionals.



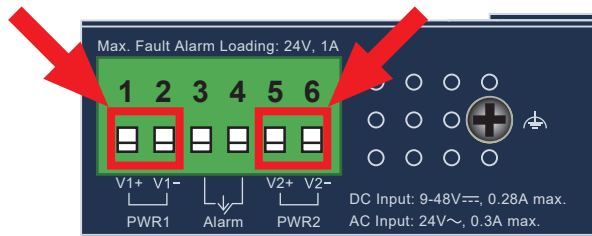
When performing any of the procedures like inserting the wires or tightening the wire-clamp screws, make sure the power is OFF to prevent from getting an electric shock.



Lorsque vous effectuez l'une des procédures telles que l'insertion des fils ou le serrage des vis de serrage, assurez-vous que l'alimentation est coupée pour éviter tout choc électrique.

#### IGS-500T

1. Insert positive and negative DC power wires into contacts 1 and 2 for POWER 1, or contacts 5 and 6 for POWER 2.

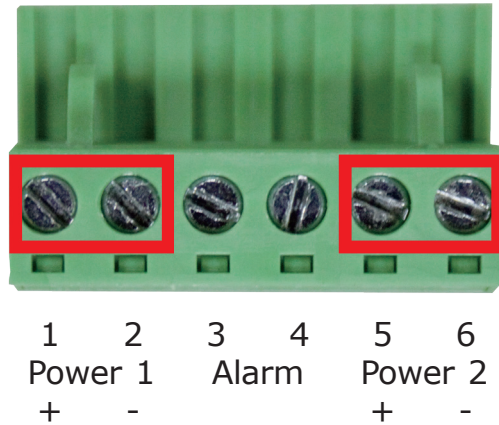


Wire Range	Wire Type	FW	Torque In-lbs (N.m)
12-24 AWG Str/Sol	Cu	2	5 (0.56)

2. This product is supplied with a UL-listed power adapter or power source of 24V AC, **50/60Hz** 0.3A (max.) or 9-48V DC, 0.28A (max.) and the maximum temperature of 75°C.

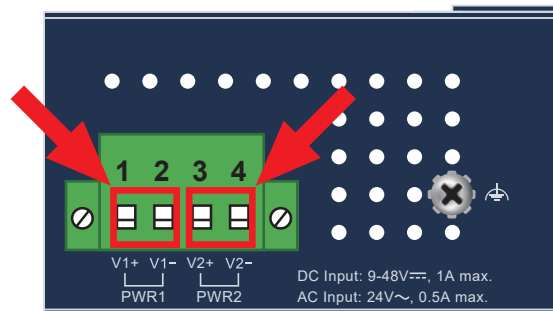


3. Tighten the wire-clamp screws for preventing the wires from loosening.



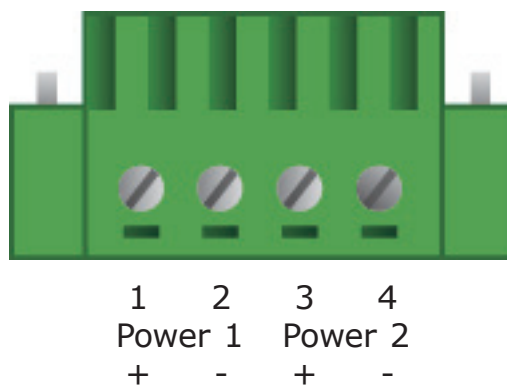
### IGS-800T

1. Insert positive and negative DC power wires into contacts 1 and 2 for POWER 1, or contacts 3 and 4 for POWER 2.



2. This product is supplied with a UL-listed power adapter or power source of 24V AC, **50/60Hz** 1A (max.) or 9-48V DC, 1A (max.) and the maximum temperature of 75°C.

3. Tighten the wire-clamp screws for preventing the wires from loosening.





Note

1. The power input range is **9V ~ 48V DC** for Industrial Gigabit Ethernet Switch with support for **24V AC**.
2. Use one power input when using 24V AC.

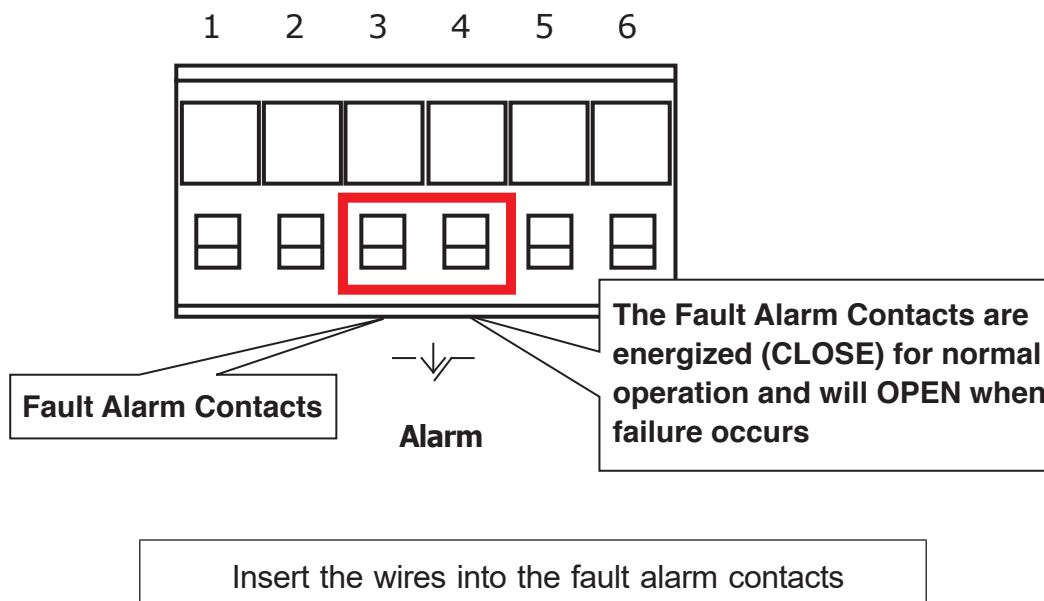


Note

1. La plage d'entrée d'alimentation est de 9V ~ 48V DC et prend en charge 24V AC.
2. Utilisez une entrée d'alimentation lorsque vous utilisez 24V AC..

### 3.5 Wiring the Fault Alarm Contact (IGS-500T only)

The fault alarm contacts are in the middle of the terminal block connector as the picture shows below. Inserting the wires, the Industrial Gigabit Ethernet Switch will detect the fault status of the power failure and then forms an open circuit. The following illustration shows an application example for wiring the fault alarm contacts.

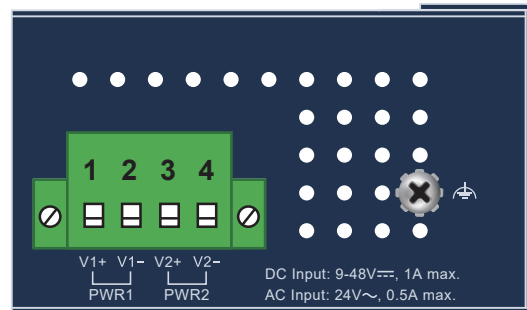
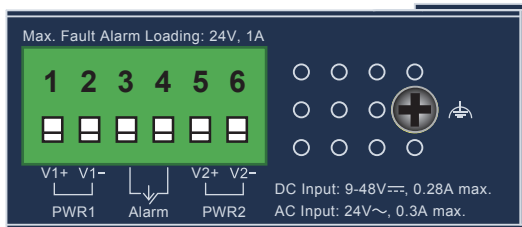


Wire Range	Wire Type	FW	Torque In-lbs (N.m)
12-24 AWG Str/Sol	Cu	2	5 (0.56)

Alarm relay circuit accepts up to 24V DC, 1A

### 3.6 Grounding the Device

Users MUST complete grounding the device wired with a power cord adapter or power supply source; a sudden lightning could cause fatal damage to the device.



Note

EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.



Note

LES DOMMAGES EMD (éclair) NE SONT PAS PRIS SOUS GARANTIE.

## 4. Installation

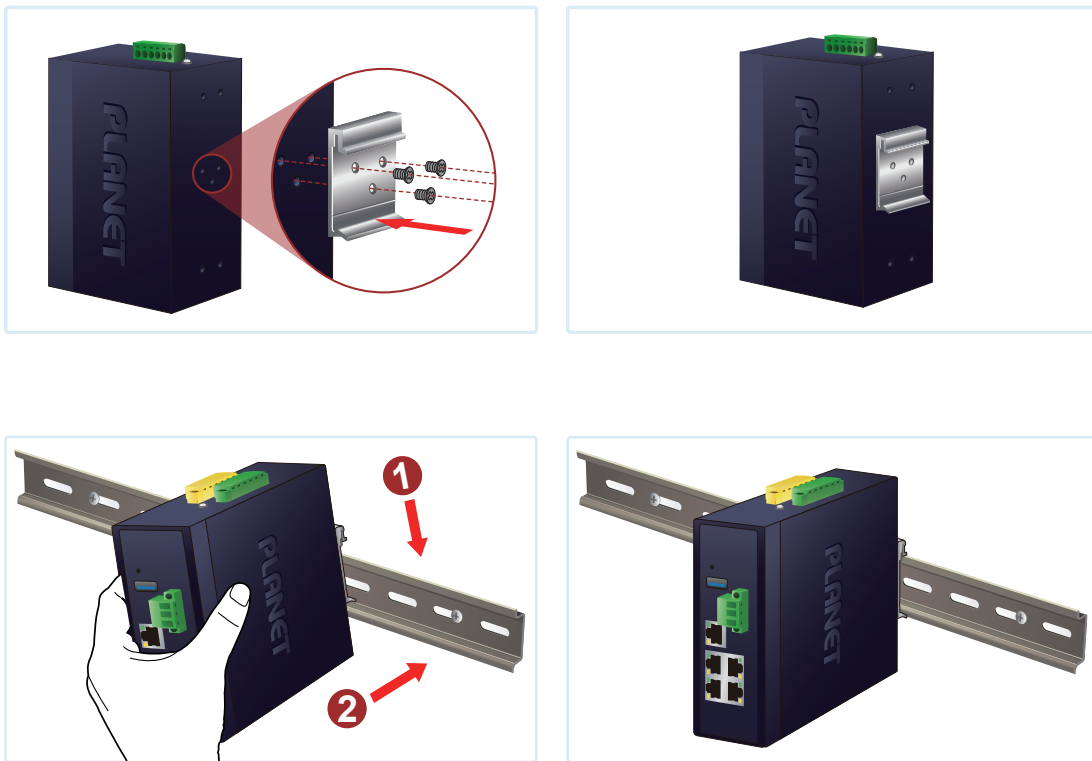
This section guides you to installing the Industrial Gigabit Ethernet Switch on the DIN rail and wall. Please read this chapter completely before continuing.



Note

This following pictures show how to install the device. However, the device in the picture is not IGS-500T/IGS-800T.

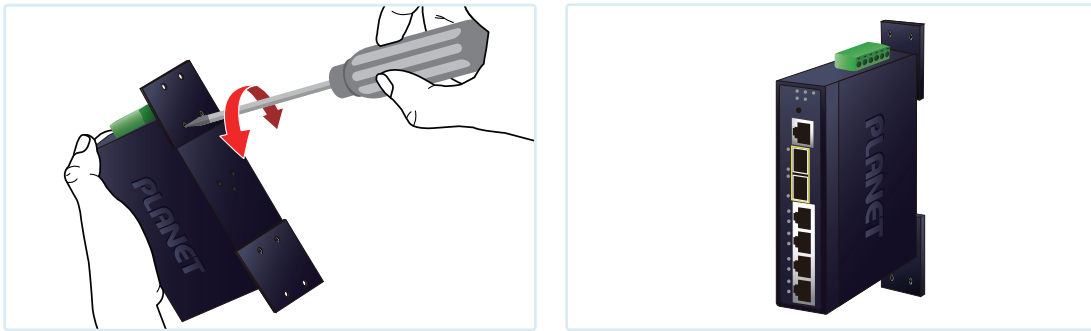
### 4.1 DIN-rail Installation



**Figure 5:** DIN-rail Mounting

Place the bracket on the back of the device and with the given 3 screws, tighten them. Slide the device with the bracket mounted through the DIN-rail to finish the installation.

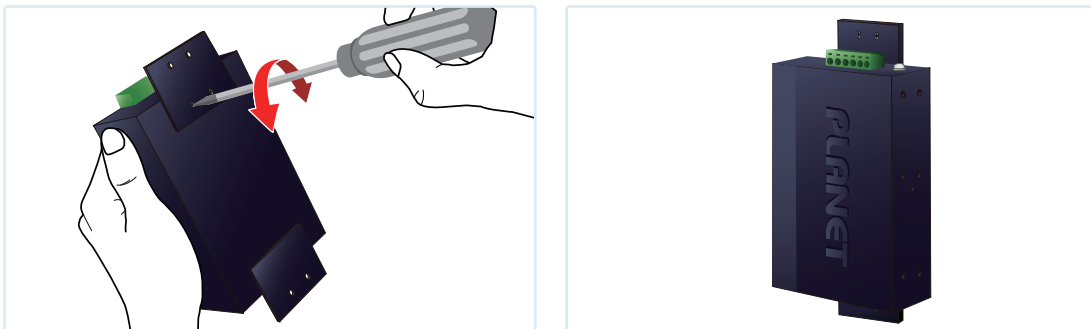
## 4.2 Wall Mounting



**Figure 6:** Wall Mounting

Place both mounting plates on the back of the device, and tighten them with the given screws. Then put the device with the plates mounted on the wall, and screw them to finish the installation.

## 4.3 Side Wall Mounting



**Figure 7:** Side Wall Mounting

Place the two mounting plates on the bottom of the device, and tighten them with the given screws. Then put the device with the plates mounted on the wall, and screw them to finish the installation.



Caution

You must use the screws supplied with the wall-mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.



Attention

Vous devez utiliser les vis fournies avec les supports muraux. Les dommages causés aux pièces par l'utilisation de vis incorrectes invalideraient votre garantie.

# 5. Three-View Diagram

The three-view diagram of the **Industrial Gigabit Ethernet Switch** consists of multiple auto-sensing 10/100/1000BASE-T RJ45 ports and one **removable terminal block**. The LED indicators are also located on the front panel.

## IGS-500T

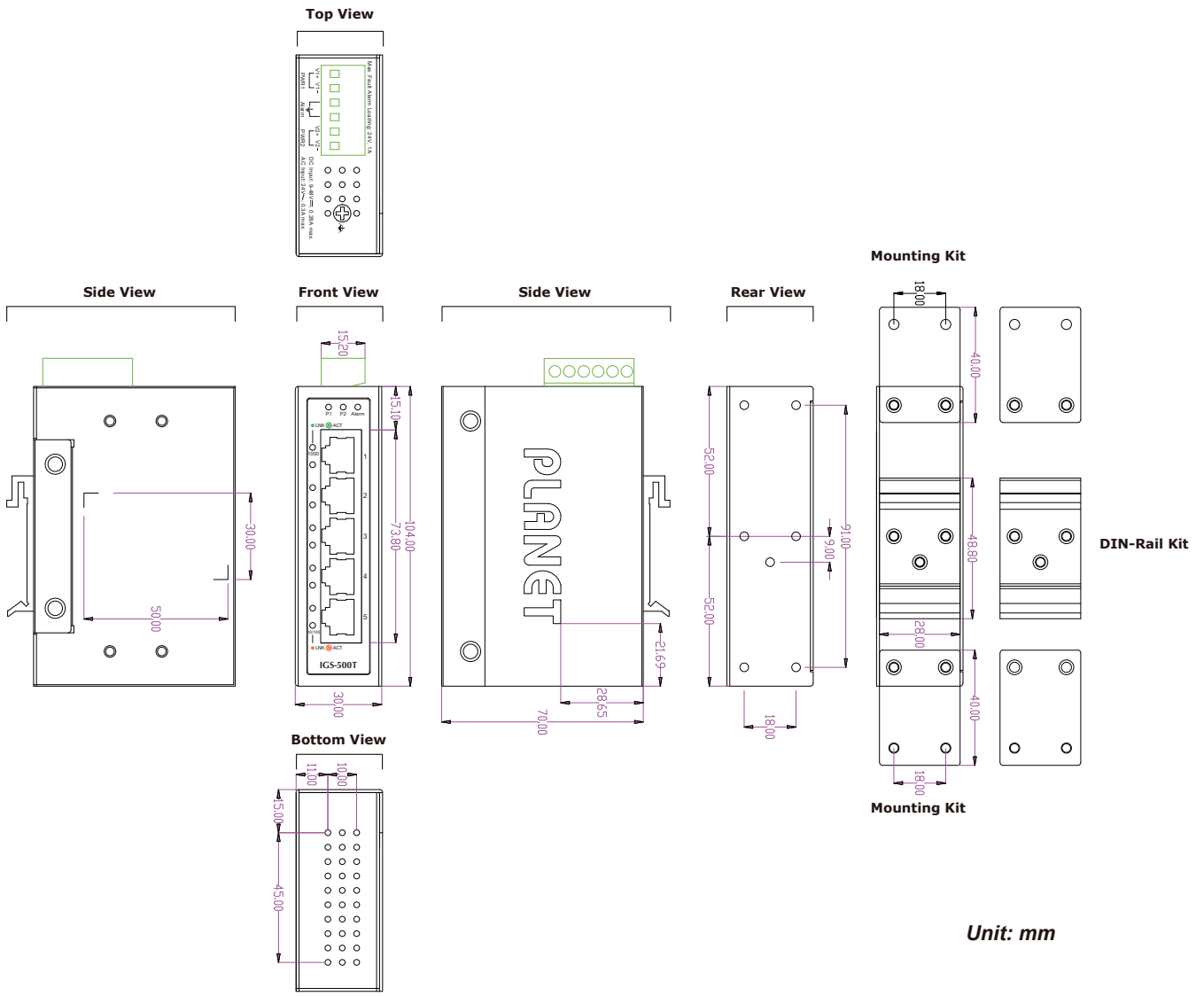
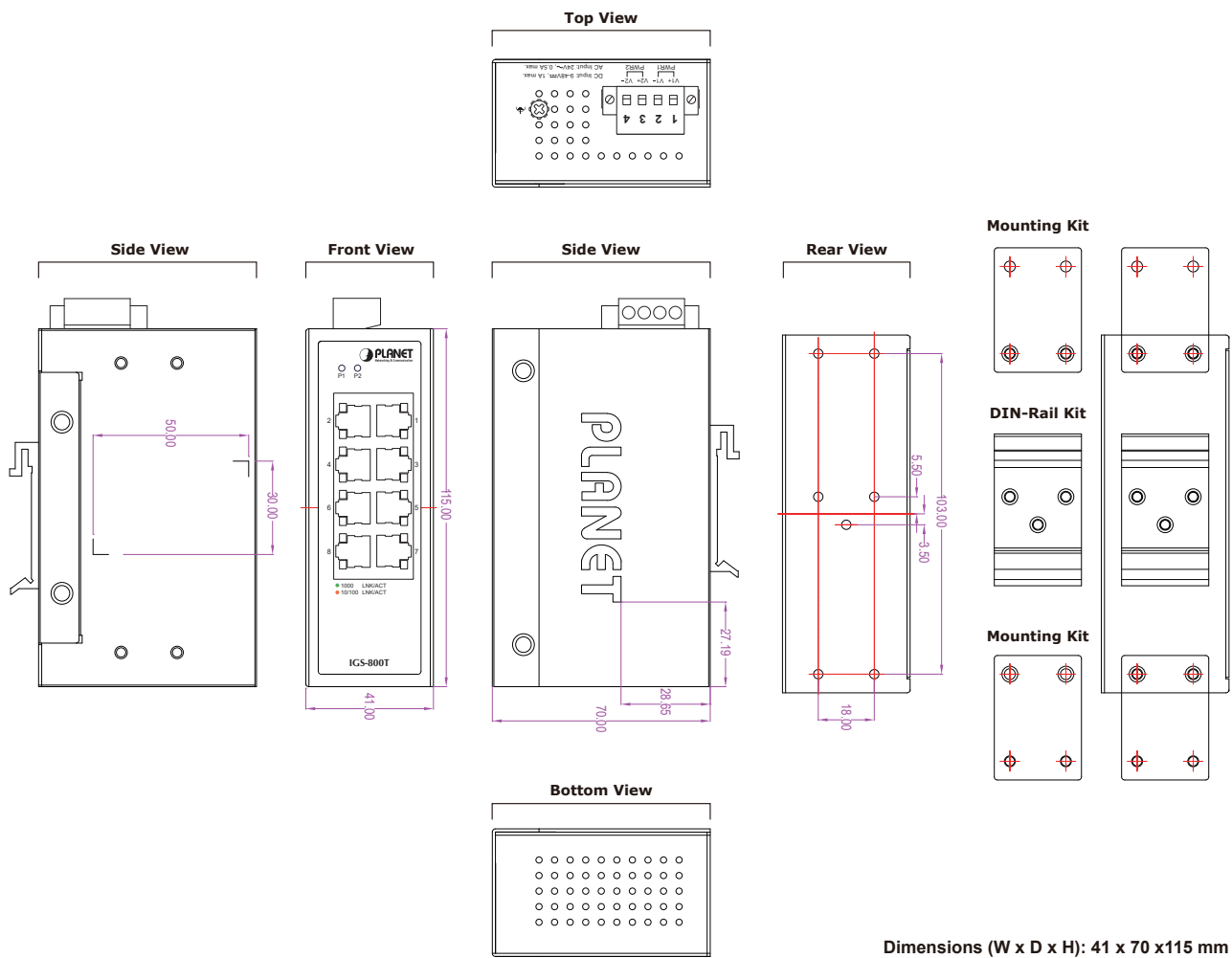


Figure 8: IGS-500T Three-View Diagram

# IGS-800T



Dimensions (W x D x H): 41 x 70 x 115 mm

Figure 9: IGS-800T Three-View Diagram

## ***Customer Support***

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:

<https://www.planet.com.tw/en/support/faq>

Switch support team mail address:

[support@planet.com.tw](mailto:support@planet.com.tw)

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## **FCC Warning**

This equipment has been tested and found to comply with the regulations 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

## **Avertissement de la FCC**

Cet équipement a été testé et jugé conforme à la réglementation pour un appareil numérique de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles lorsque l'équipement est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé et utilisé conformément au présent guide de l'utilisateur, peut causer des interférences nuisibles aux communications radio. Le fonctionnement de ces équipements dans une zone résidentielle est susceptible de provoquer des interférences préjudiciables, auquel cas l'utilisateur sera tenu de corriger les interférences à ses propres frais.

## **CE Mark Warning**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

## **Avertissement de marquage CE**

Il s'agit d'un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur peut être tenu de prendre des mesures adéquates.

Cet équipement est conforme à la classe A du CISPR 32. Dans un environnement résidentiel, cet équipement peut causer des interférences radio.

## WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

## Avertissement WEEE



Afin d'éviter les effets potentiels sur l'environnement et la santé humaine résultant de la présence de substances dangereuses dans les équipements électriques et électroniques, les utilisateurs finaux d'équipements électriques et électroniques devraient comprendre la signification du symbole du bac à roulettes barré. Ne jetez pas les WEEE en tant que déchets municipaux non triés et devez les collecter séparément.