

**Industrial Compact 2-Port 10/100/1000BASE-T to
2-Port 100/1000BASE-X SFP Media Converter**

IGT-2205AT-E

User's Manual

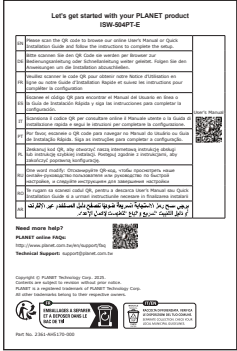
Table of Contents

1. Package Contents	3
2. Product Specifications	4
3. Hardware Introduction	7
3.1 Three-View Diagram.....	7
3.2 Front View	8
3.3 LED Definition:	8
3.4 Top View.....	9
3.5 Wiring the Power Inputs.....	9
3.6 Grounding the Device.....	10
4. Installation.....	11
4.1 DIN-rail Mounting Installation.....	11
4.2 Wall-mount Plate Mounting	12
5. Customer Support	13

1. Package Contents

Thank you for purchasing PLANET Industrial Compact 2-Port 10/100/1000BASE-T to 2-Port 100/1000BASE-X SFP Media Converter, IGT-2205AT-E. In the following section, the term **“Media Converter”** means the IGT-2205AT-E.

Open the box of the Media Converter and carefully unpack it. The box should contain the following items:

Media Converter x 1		QR Code Sheet x 1	
			
DIN-rail Kit	RJ45 Dust Cap x 2	SFP Dust Cap x 2	
			

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	IGT-2205AT-E			
Hardware Specifications				
Copper Port	2 x 10/100/1000BASE-T RJ45 TP Auto-MDI/MDI-X, auto-negotiation			
SFP/mini-GBIC Slots	2 x 100/1000BASE-X SFP interfaces Supports auto detection			
DIP Switch	DIP	Function	ON	OFF
	1	Fiber Redundancy	Port 3 and Port 4 are both linked; only Port 3 transmits data. If Port 3 fails, traffic will switch to Port 4.	Port 3 and Port 4 are both linked and can transmit data simultaneously.
	2	Flow Control	Pauses transmission when receiver is busy to reduce packet loss	No flow control; data sends continuously, may lose packets
	3	Broadcast Storm Restraint	Limits broadcast traffic to prevent network overload.	No limit; broadcasts may cause network congestion.
	4	Fiber Port Speed Selection	Can link and transmit data at both 100/1000 Mbps.	Can only link and transmit data at 1000 Mbps.
Connector	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2			
LED	System and Power: ■ Green: Power 1 ■ Red: Alarm Per Copper Port (Port-1~Port-2): ■ Green: Port LNK/ACT ■ Amber:1G LNK SFP interface (Port-3~Port-4) ■ Green: 1G LNK/ACT			
ESD Protection	4KV DC			

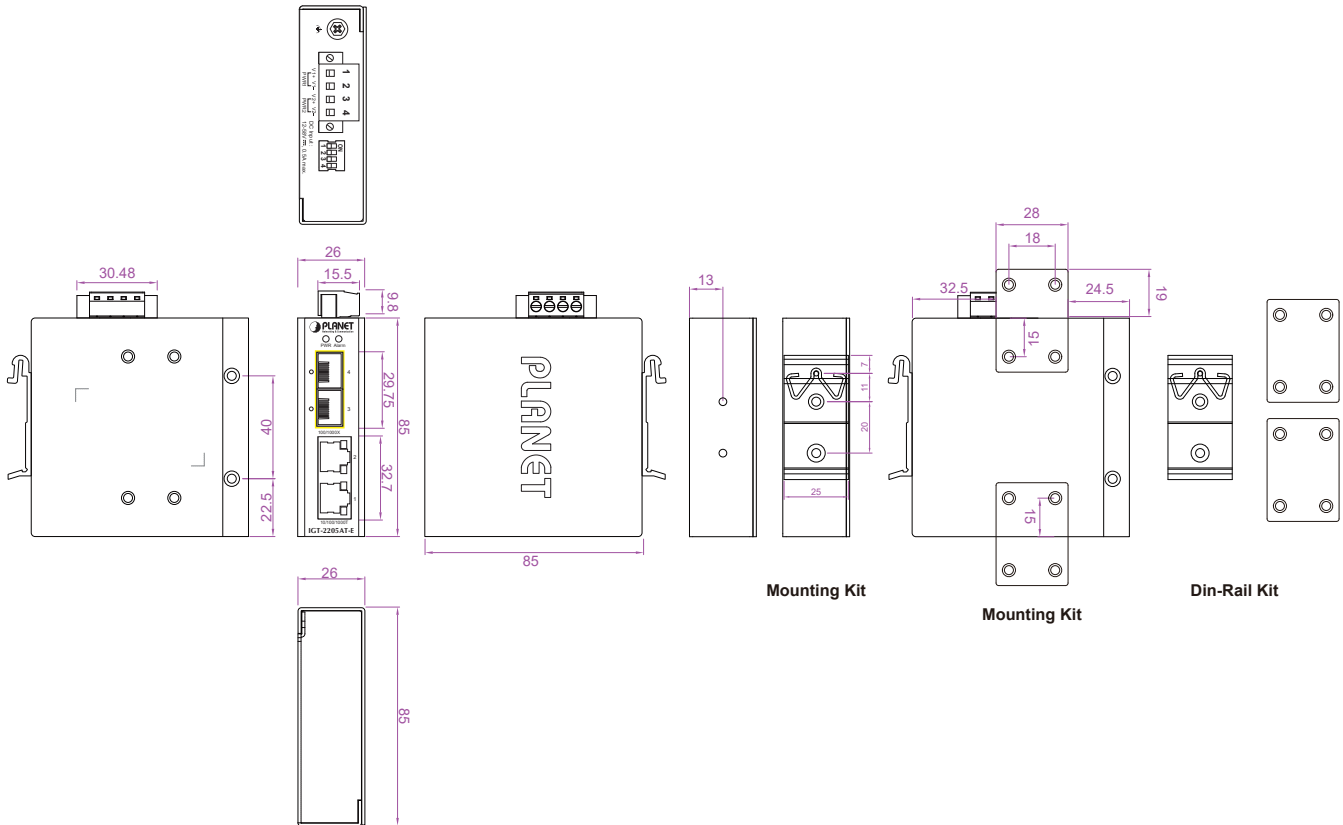
Enclosure	IP40 type metal case
Installation	DIN-rail kit (Side wall mount is an optional accessory)
Dimensions (W x D x H)	26 x 85 x 85mm
Weight	294g
Power Requirements	DC 12~58V Redundant power with reverse polarity protection
Power Consumption/ Dissipation	Max. 0.58 watts/1.98 BTU (Power on without any connection) Max. 3.5 watts/11.94 BTU (Ethernet full loading)
Switch Specification	
Switch Processing Scheme	Store-and-Forward
Address Table	8K entries
Maximum Transmit Unit	10K bytes
Switch fabric	8Gbps
Throughput (packet per second)	11.9Mpps@64bytes
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

Environment	
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5~95% (non-condensing) Storage: 5~95% (non-condensing)

3. Hardware Introduction

3.1 Three-View Diagram

The three-view diagram of the **Media Converter** includes two auto-sensing 100/1000BASE-TX RJ45 ports, two 100/1000BASE-X SFP ports, and one **removable 4-pin terminal block**. The LED indicators are also located on the front panel.



Dimensions (W x D x H): 26 x 85 x 85 mm

Figure 1: IGT-2205AT-E Three-View Diagram

3.2 Front View

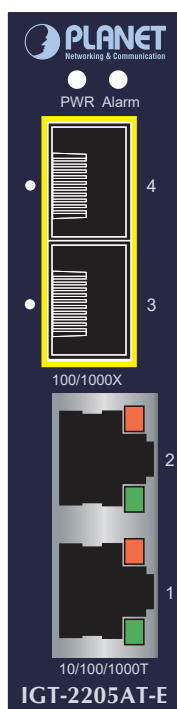


Figure 2: IGT-2205AT-E Front View

3.3 LED Definition:

System

LED	Color	Function
PWR	Green	Off: the device is power off or failed On: the device power on is normal
Alarm	Red	Off: the chip is normal On: the chip read/write operation is abnormal

2x10/100/1000 BASE-T Ports (Port 1 & Port 2)

LED	Color	Function
LNK/ACT	Green	Off: ports link down On: ports link up Blink: Indicating that the port is actively sending or receiving data over that port.
	Amber	Off: ports speed is 10/100M On: ports speed is 1000M

2x100/1000 BASE-X Ports (Port 3 & Port 4)

LED	Color	Function
LNK/ACT	Green	Off: ports link down On: ports link up Blink: Indicating that the port is actively sending or receiving data over that port.

3.4 Top View

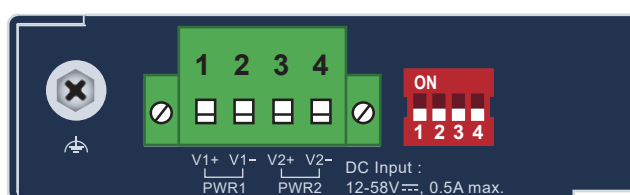


Figure 3: IGT-2205AT-E Top View

3.5 Wiring the Power Inputs

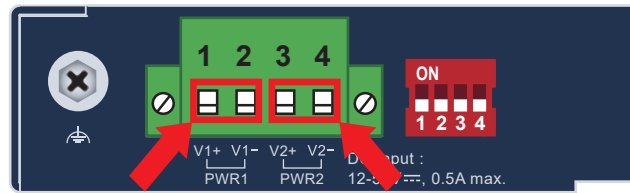
The 4-contact terminal block connector on the top panel of Media Converter is used for two DC redundant power inputs. Please follow the steps below to insert the power wire.



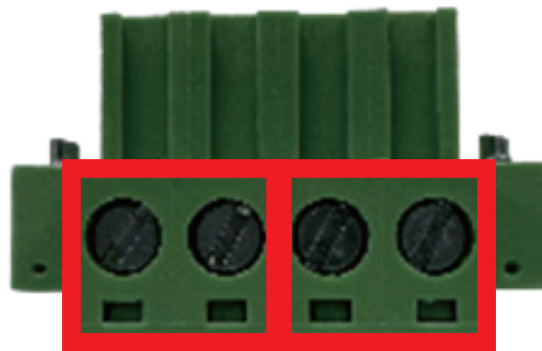
Caution

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.

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



1	2	3	4
Power 1		Power 2	
+	-	+	-



Note

1. The wire gauge for the terminal block should be in the range between 12 and 24 AWG.
2. The DC power input range is 12V ~ 58V DC.

3.6 Grounding the Device

Users **MUST** complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device. EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

4. Installation

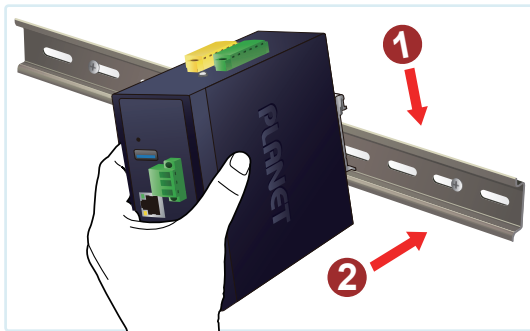
This section describes the functionalities of the Media Converter's components and guides you to installing it on the DIN rail and wall. Please read this chapter completely before continuing.



Note

This following pictures show the user how to install the device, and the device is not IGT-2205AT-E.

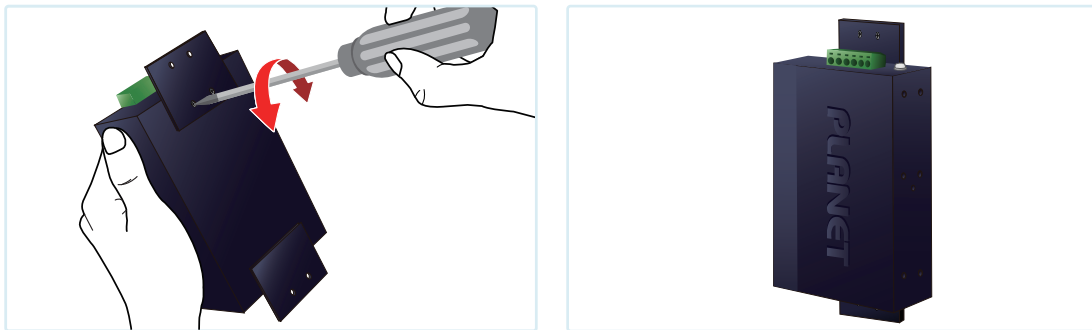
4.1 DIN-rail Mounting Installation



Place the bracket on the back of the device and with the given 2 screws, tighten them. Slide the device with the bracket mounted through the DIN-rail to finish the installation.

4.2 Wall-mount Plate Mounting

(Optional side wall mount. Contact local distributor if needed.)



Place the mounting plate on the side of the device and secure it with the provided screws. Then place the device with the mounted plate against the wall and fasten it with screws to complete 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.

5. 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.php>

Switch support team mail address:

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.