



## DESCRIPTION

PLANET IGUP-2205AT Industrial Gigabit Media Converter combines Ethernet media conversion (from 1000BASE-X to 10/100/1000BASE-T) with 802.3bt Power over Ethernet Plus Plus (PoE++) injector function to deliver both ports up to 180 watts of power output and high data transmission speed to PDs (powered devices) installed in a remote area where sufficient and reliable power input is required. Its 1000BASE-X fiber optic uplink port provides long distance, high speed and stable data transmission to a remote core network. The special and convenient power system of the IGUP-2205AT supports dual 12~56V DC power inputs for power redundancy and operational flexibility.

Being able to operate under the temperature ranging from -40 to 75 degrees C and with an IP30 rugged case, the IGUP-2205AT can be placed in almost any difficult environment.

### Fiber-optic Link Capability Extends the Range of Network Deployment

The maximum distance between a PoE PSE (power sourcing equipment) and PD via Ethernet cable is 100 meters. To extend the PoE deployment range, the IGUP-2205AT is integrated with fiber interface for farther distance applications. The IGUP-2205ATs fiber connector type is as follows:

- Two SFP slots supporting 100BASE-FX/1000BASE-X multi/single mode SFP module and transmission distance up to 120km (Varying on SFP module)

With the long fiber distance support, the IGUP-2205AT still sustains the transmission performance as high as 1000Mbps. It works in the high-performance Store and Forward mechanism, and also can prevent packet loss with IEEE 802.3x flow control. Furthermore, it can immediately alarm the administrators the issue from the link media and provide efficient solution to monitor the network power usage.

### Plug and Play High Power Sourcing Solution

Complying with the IEEE 802.3bt Power over Ethernet Plus technology, the IGUP-2205AT provides up to 90 watts of PoE output power, tripling that of the earlier 802.3at. Through, the Legacy function in the DIP switch design, it is also backward compatible with 802.3af/at PoE standards to allow users to flexibly deploy standard and high powered devices simultaneously with no need

of software configuration. With data and Power over Ethernet from one unit, the IGUP-2205AT can reduce cable deployment and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place.

### Convenient and Reliable Power System

To facilitate the 802.3bt power PoE++ usage with the commonly-used 12~48V DC power input for transportation and industrial-level applications, the IGUP-2205AT adopts the 12~48V DC to 56V power boost technology to solve power source issue but does not require special power supplies. Its wide-ranging voltages design is suitable for worldwide operability with high availability applications requiring dual or backup power inputs.

### Environmentally Hardened Design for Industrial PoE Networks

The IGUP-2205AT is specifically designed with durable components and strong housing case to operate reliably in electrically harsh and climatically demanding environments like plant floors or curbside traffic control cabinets. The IGUP-2205AT is packaged in a compact, IP30 rugged case that allows either DIN-rail or wall mounting to have the efficient use of cabinet space. With IP30 rugged case protection and PoE design, the IGUP-2205AT is ideal for service providers, campuses and public areas to deploy PoE wireless access points, IP cameras or IP phones in any places easily and efficiently with cost-effectiveness. It can also operate in wide temperature range of -40 to 75 degrees C, so it can be placed in almost any location.

## TECHNICAL CHARACTERISTICS

Brand : PLANET

Part number : IGUP-2205AT

#### Design :

Certification : FCC Part 15 Class A, CE

Cable types supported : Cat3, Cat4, Cat5, Cat5e, Cat6

Connectivity technology : Wired

Converter input interface : 10Base-T, 100Base-T, 1000Base-T

Converter output interface : 1000Base-BX, 1000Base-LX, 1000Base-SX

Depth : 85 mm

DIN rail mounting : Y

Duplex system : Full, Half

Ethernet interface type : Gigabit Ethernet

Ethernet LAN data rates : 10,100,1000 Mbit/s

Fiber cable diameters supported (core/cladding) : 9/125,50/125,62.5/125 μm

Fiber mode structure : Multi-mode, Single-mode

Fiber optic connector : SFP

Fiber ports quantity : 2

Flow control support : Y

Harmonized System (HS) code : 85176990

Height : 135 mm

Housing material : Metal

Input voltage : 12 - 48 V

International Protection (IP) code : IP30

LED indicators : Fault, PoE, Power, System

Maximum data transfer rate : 1000 Mbit/s

Networking standards : IEEE 802.3, IEEE 802.3ad, IEEE 802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.3bt, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z

Operating relative humidity (H-H) : 5 - 90%

Operating temperature (T-T) : -40 - 75 °C

Power over Ethernet (PoE) : Y

Power over Ethernet (PoE) ports quantity : 2

Product colour : Blue

Storage relative humidity (H-H) : 5 - 90%

Storage temperature (T-T) : -40 - 85 °C

Total Power over Ethernet (PoE) budget : 90 W

Weight : 665 g

Width : 55 mm