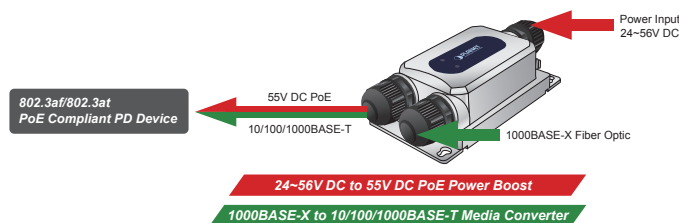# Industrial IP67 1000BASE-X SFP to 10/100/1000BASE-T 802.3at PoE+ Media Converter
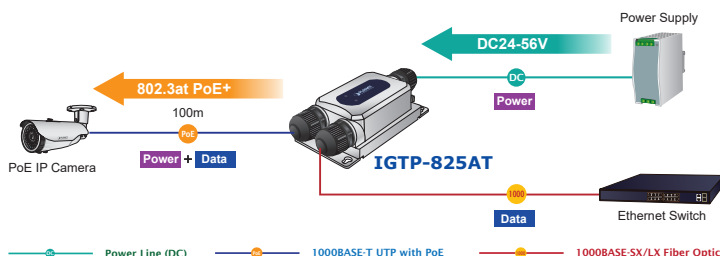
Designed to Operate under Wide Temperature Range

PLANET IGTP-825AT is the industrial-grade Gigabit PoE+ Media Converter, featuring one **1000BASE-X** SFP fiber port and **one 10/100/1000BASE-T 802.3at PoE+ copper** port in an **IP67** rugged but compact-size case. Being able to operate under the temperature ranging from -40 to 75 degrees C, the IGTP-825AT provides reliable, stable and continuous long-range data transmission and can be installed in any harsh environment without taking space into consideration.

Backward Compatibility Saves Deployment Costs

The IGTP-825AT can deliver up to 30-watt 55V DC power over Cat.5/5e/6 Ethernet cables, doubling that of the earlier 802.3af. It is also backward compatible with 802.3af PoE standards to allow users to flexibly deploy standard and high powered devices simultaneously with no need for software configuration. With data and Power over Ethernet from one unit, the IGTP-825AT can reduce cable deployment and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place.

Physical Port

- **One10/100/1000BASE-T** with IEEE 802.3at PoE+ Gigabit RJ45 port
  - Data + Power output

- **One 1000BASE-X SFP interface**
  - Data input

- One 2-pin terminal block for power input. (Power Range: 24 ~ 56V DC)

Power over Ethernet

- 1-port data + power output
  - Complies with IEEE 802.3at Power over Ethernet plus PSE
  - Compatible with IEEE 802.3at/802.3af powered devices
  - Supports total PoE budget up to **30 watts** for PoE output port
  - Provides **DC 55V** power over RJ45 Ethernet cable to device with Ethernet port
  - Auto detects IEEE 802.3at/af equipment and protects devices from being damaged by incorrect installation
  - Remote power feeding up to 100m
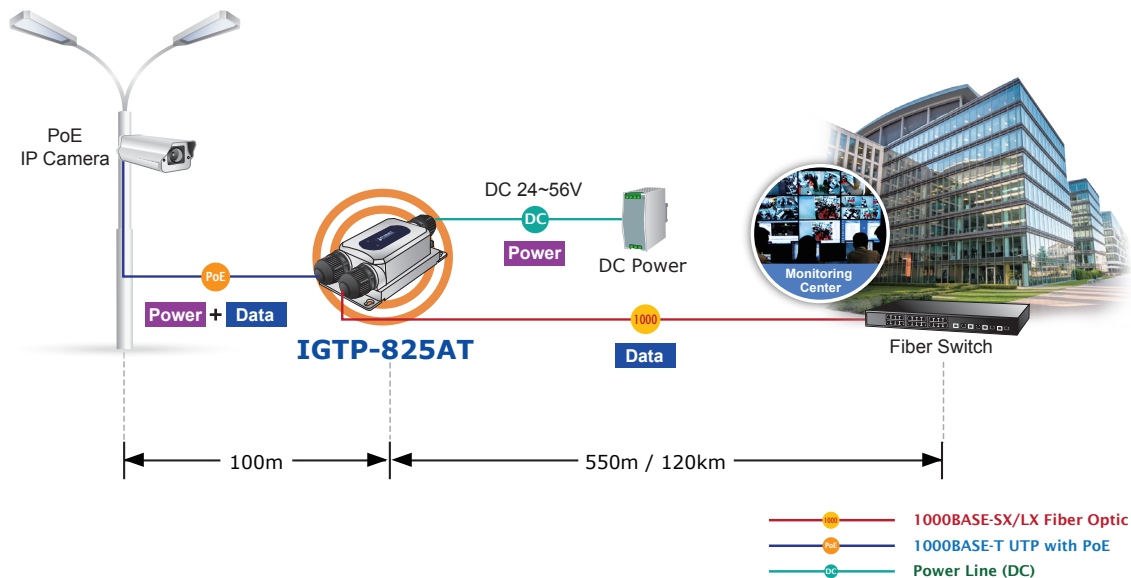 - Auto detects powered device (PD)

Industrial Case and Installation

- IP67-rated and IK-10 rated aluminum case

- Wall-mount design

- Supports 6KV DC Ethernet ESD protection

- -40 to 75 degrees C operating temperature

- Plug and Play installation

Fiber-optic Link Capability Extends Network Deployment Distance

The maximum distance between a PoE PSE (power sourcing equipment) and a PD via Ethernet UTP cable is 100 meters. To flexibly extend the PoE deployment range, the IGTP-825AT's SFP slot, supporting a 1000BASE-X SFP module, can extend the distance from 550m to 120km.

The SFP module (transceiver) is hot-pluggable and hot-swappable. You can plug in and out the transceiver to/from any SFP port without having to power down the Industrial 802.3at PoE+ Media Converter.

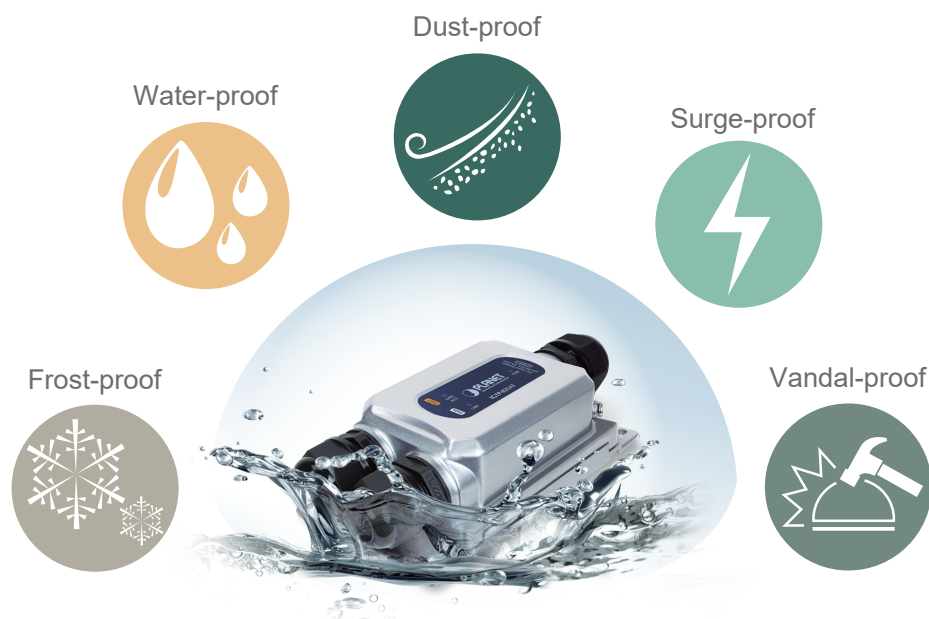|	
1000BASE-SX/LX Fiber Optic	
1000BASE-T UTP with PoE	
Power Line (DC)	

Weather-proof RJ45 Ethernet Connector and Shielded Plug

The IGTP-825AT is ideal for installing an extended range of outdoor PoE devices such as outdoor PoE wireless access points, outdoor PoE IP cameras, outdoor PoE IP intercoms and many more. The IGTP-825AT is equipped with 3 waterproof cable glands for direct-attach applications. Assembled with a waterproof cable gland, it can make the general connector weather-proof and provides a tight and strong connection. Moreover, it comes with the industrial protection rating of IP67 capable of withstanding humidity, dirt, dust, shock, vibrations, heat and cold.

Environmentally-hardened Design

With an industrial-level IP67-rated aluminum case, the IGTP-825AT provides a high level of immunity against electromagnetic interference and wide-ranging temperature capability, and can protect itself from dust and water ingress. All these features ensure the highest level of reliability for mission-critical applications in any difficult environment.

Environmental Adaptations in Outdoor Area

Fluctuation Protection

The IGTP-825AT provides ±8KV DC for Ethernet ESD protection and ±6KV surge immunity to improve product stability and thus protects networks from power fluctuation.

Applications

Flexible and User-friendly PoE Deployment with Gigabit Fiber Extension

For the places difficult to find the power outlet, the IGTP-825AT provides the easiest way to power network equipment such as PTZ (pan, tilt & zoom) IP cameras, speed dome IP cameras, color touch-screen VoIP telephones, multi-channel (IEEE 802.11a/b/g/n/ac) wireless LAN access points and other network devices that need a higher power to function normally.

With the IGTP-825AT, users can flexibly install security IP cameras, wireless access points and other IEEE 802.3af/at compliant network equipment in public areas such as stations, freeways, airports and campuses for surveillance and wireless roaming needs.

Remote Monitoring

Internet

Control Center

PTZ Speed Dome

PoE Splitter

Fiber Switch

IGTP-825AT

PoE Wireless Access Point

Railway

IGTP-825AT

PTZ Speed Dome

Factory

Freeway

═══ 1000 ═══	**1000BASE-SX/LX Fiber Optic**
───────────	**1000BASE-T UTP**
═══ PoE ═══	**1000BASE-T UTP with PoE**
═══ DC ═══	**Power Line (DC)**