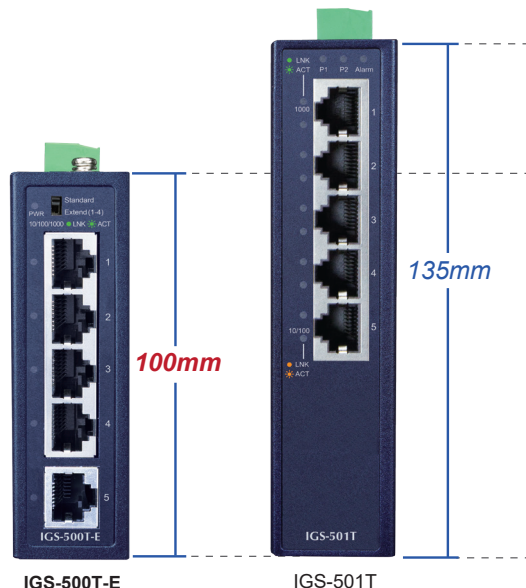# Compact Industrial 5-Port 10/100/1000T Ethernet Switch

Compact Size for More Practicability and Convenience

PLANET **IGS-500T-E Compact Industrial 5-Port 10/100/1000T Ethernet Switch**, suitable for industrial use, features 5 1000Mbps auto-negotiation ports, IP40-rated rugged yet compact case and a wide-ranging redundant power system (**12~55V DC**). The IGS-500T-E is able to operate in any harsh environment with operating temperature ranging from **-40 to 75 degrees C**.

Compact Industrial 5-Port Switch

100mm

135mm

IGS-500T-E   IGS-501T

As the trend for an IIoT (Industrial Internet of Things) infrastructure continues to grow, the IGS-500T-E is designed to simplify industrial network deployment with its Plug and Play feature. Beyond offering stable and reliable fast data, it also aligns with the AIoT (Artificial Intelligence of Things) vision by enabling seamless integration of intelligent systems. This allows the collection and analysis of valuable data, empowering real-time decision-making and enhancing operational efficiency across various industrial applications.

Physical Port

- 5-port 10/100/1000BASE-T RJ45 with auto-MDI/MDI-X function

Layer 2 Features

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX and IEEE 802.3ab 1000BASE-T Ethernet standard
- Supports auto-negotiation and 10/100/1000Mbps half/full duplex mode
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- Complies with IEEE 802.3az Energy Efficient Ethernet (EEE)
- Supports 2K MAC address

Industrial Case and Installation

- IP40 metal case
- DIN-rail and wall-mount designs
- 12 to 55V DC, redundant power with reverse polarity protection
- Supports 6000 VDC Ethernet ESD protection
- -40 to 75 degrees C operating temperature
- Operate reliably at an altitude of 3,000 meters
- Free fall, shock-proof and vibration-proof for industries
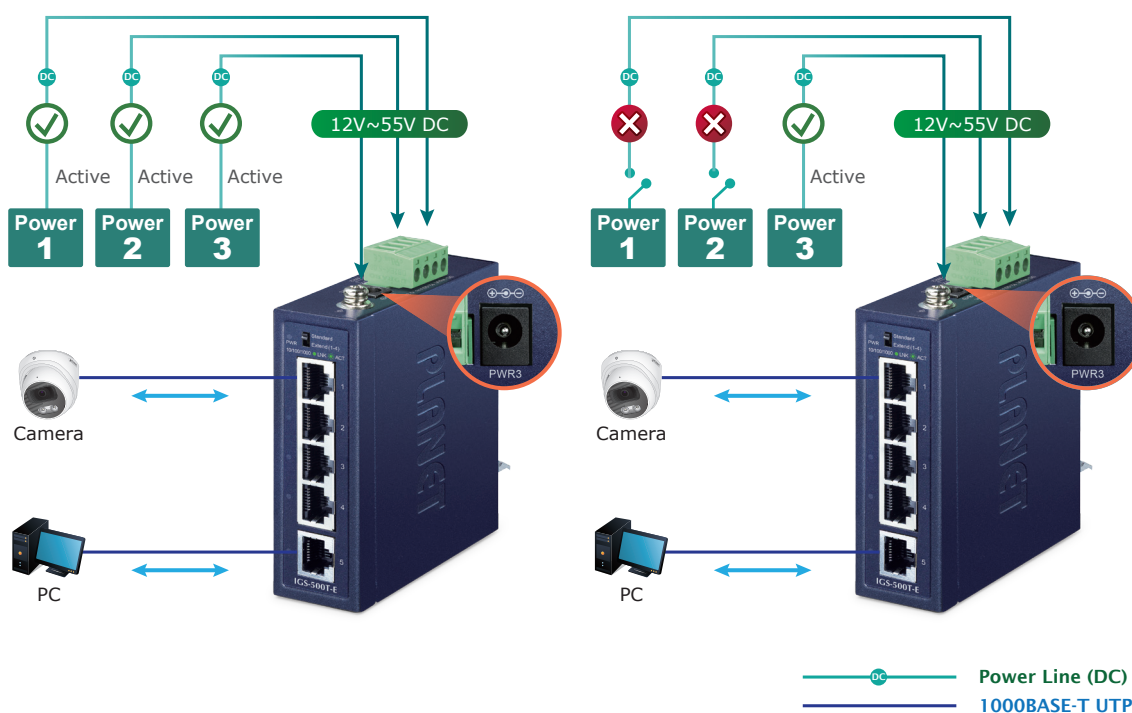
Low Power Consumption for ESG Principles

The IGS-500T-E adopts advanced green networking technology that aligns with **Environmental**, **Social**, **and Governance (ESG)** principles, offering link-on cable length power-saving and link-down power-saving features. These capabilities enable the IGS-500T-E to maintain exceptionally low power consumption even under full-load operation, effectively conserving energy while delivering outstanding performance. Compared to the IGS-500T, the IGS-500T-E can reduce energy consumption by over 50%.

With **Auto Power Savings** and the **IEEE 802.3az Energy-Efficient Ethernet (EEE)** protocol, the IGS-500T-E can automatically detect cable link status and network traffic, adjusting its power consumption accordingly. When device activity is lower, the switch consumes less power, achieving greater energy efficiency.

Triple Power Input for High Availability Network System

The IGS-500T-E features a robust triple power input system with wide-ranging voltages (12V~55V DC) incorporated into the customer's automation network to enhance system reliability and uptime. In the example below, if one power supply fails, the hardware failover function will be activated automatically to keep powering the IGS-500T-E via the remaining power supplies alternatively, ensuring continuous operation without any interruptions.

Non-stop Ethernet Server
Triple Power Input with Auto Failover

High Switch Performance

The IGS-500T-E comes with high-performance switch architecture, making it suitable for industrial networking. With the **5** 10/100/1000Mbps Ethernet ports providing non-blocking switch fabric and wire-speed throughput as high as 10Gbps and the 2K MAC address table, the IGS-500T-E can perform wire-speed packet transfer without the risk of packet loss. The flow control function enables the IGS-500T-E to provide fast and reliable data transfer.

Plug and Play

All of the RJ45 copper interfaces in the IGS-500T-E support 10/100/1000Mbps auto negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cables. The standard auto-MDI/MDI-X support can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.

Flexible and Easy Installation with Limited Space

The compact sized IGS-500T-E is specially designed to be installed in a narrow environment, such as wall enclosure. It can be installed by fixed wall mounting or DIN rail, thereby making its usability more flexible and easier in any space-limited location.

Optional installation method

DIN-rail Mounting

Wall Mounting

* The above pictures are for illustration only.

Applications

Designed for Heavy Industries

The IGS-500T-E's IP40-rated metal case is particularly designed for heavy industries, such as factories, harbors, warehouses, and more. When installed at these establishments, it can enhance the work performance of these establishments by speedily transferring incoming and outgoing data.

IP Camera

Digital Signage

Industrial Controller   Serial over Ethernet Converter

HMI

IGS-500T-E

LAN

Intranet

1000BASE-T UTP

Serial Line (RS-XXX)