

8-Port 10/100/1000Mbps Industrial Gigabit Ethernet Switch w/ Wide Operating Temperature



Slim Type with More Practicability and Convenience

PLANET IGS-801T advanced, slim-type, industrial, hardened Gigabit Ethernet Switch with IP30 metal case consists of 8 10/100/1000Mbps auto negotiation ports and thus, it operates reliably in heavy industrial demanding environments.

Its compact IP30-rated metal case features either DIN rail or wall mount for the efficient use of cabinet space.

Energy Saving with Lower Power Consumption

The IGS-801T, adopting the advanced green networking technology, provides the link-on cable length power saving and link-down power saving methods. These features makes the IGS-801T consume very low power in full load operation mode, which helps conserve energy effectively but maintains high performance efficiently.

Green Networking

With the Auto Power Saving and IEEE 802.3az Energy Efficient Ethernet (EEE) Protocol, the IGS-801T can automatically detect cable link status and network traffic, and thus is able to adjust power consumption accordingly. It enables the switches to consume less power when they are less active.

Stable Performance under Difficult Environments

The IGS-801T provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets. Being able to operate under the temperature range from -40 to 75 degrees C, the IGS-801T can be placed in almost any difficult environment. The IGS-801T also possesses an integrated power supply source with a wide range of voltages (12 to 48V DC, 24V AC) for worldwide high availability applications requiring dual or backup power inputs.

Physical Port

- 8-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, IEEE 802.3ab 1000BASE-T Ethernet standard
- Supports auto-negotiation and 10/100Mbps half/full duplex and 1000Mbps full duplex mode
- High-performance Store and Forward architecture, broadcast storm control and runt/CRC filtering eliminate erroneous packets to optimize the network bandwidth
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- 4K absolute MAC address and 16Gbps switching fabric support
- 1.5Mbits SRAM packet buffer
- 9K jumbo packet size support
- IEEE 802.1p CoS support
- Automatic address learning and address aging
- CSMA/CD Protocol

Industrial Case and Installation

- IP30 metal case
- DIN rail and wall-mount design
- 12 to 48V DC, redundant power with polarity reverse protect function and connective, removable terminal block for master and slave power; 24V AC power support
- -40 to 75 degrees C operating temperature



Robotic Automation System

1000Base-T UTP

Robust Switch Performance

The IGS-801T offers high-performance switch architecture. With the 8 10/100/1000Mbps Gigabit Ethernet ports providing non-blocking switch fabric and wire-speed throughput as high as 16Gbps and the 4K MAC address table, the IGS-801T can perform wire-speed packets transfer without risk of packet loss. The flow control function enables the IGS-801T to provide fast and reliable data transfer. The Gigabit port with 9K jumbo frame supported can handle extremely large amounts of data transmission in the industrial topology that forward data to central control room.

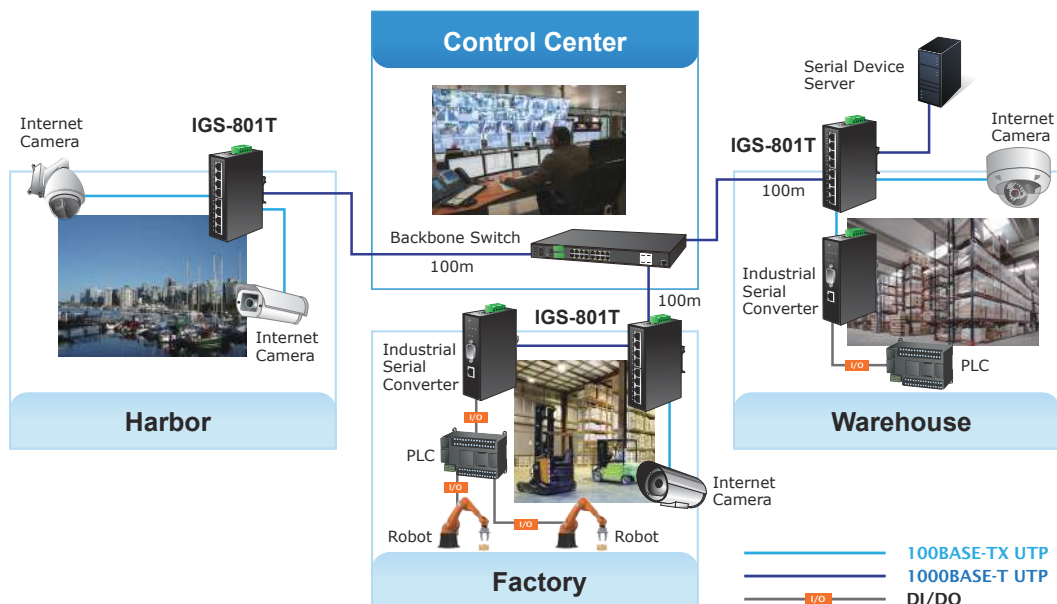
Plug and Play

All of the RJ45 copper interfaces in the IGS-801T 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 or crossover cables.

Applications

Industrial Area Switch for Data Collection and Forwarding

The IGS-801T's IP30-rated metal case is particularly designed for most heavy industrial demanding environments, 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.



Specifications

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|--------------------------------|---|
| Model | IGS-801T |
| Hardware Specifications | |
| 10/100/1000BASE-T Ports | 8 |
| Dimensions (W x D x H) | 32 x 87 x 135 mm |
| Weight | 476g |
| Power Requirements | 12~48V DC, redundant power with polarity reverse protection function, 24V AC power support |
| Power Consumption/ Dissipation | 6.72 watts/23BTU |
| Installation | DIN rail kit and wall-mount ear |
| Switch Specifications | |
| Switch Processing Scheme | Store-and-Forward |
| Address Table | 4K |
| Buffer | 1.5Mbits SRAM packet buffer |
| Flow Control | Back pressure for half duplex IEEE 802.3x pause frame for full duplex |
| Switch Fabric | 16Gbps |
| Throughput (packet per second) | 11.9Mpps |
| Jumbo Frame | 9K |
| Network Cables | 10/100/1000BASE-T: Cat3, 4, 5, 5e, 6 UTP cable (100 meters, max.) EIA/TIA-568 100-ohm STP (100 meters, max.) |
| Standards Conformance | |
| 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 |
| Stability Testing | IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration) |
| Temperature | Operating: -40~75 degrees C Storage: -40~75 degrees C |
| Humidity | Operating: 5% to 95%, Storage: 5% to 95% (non-condensing) |
| Regulatory Compliance | FCC Part 15 Class A, CE |

Ordering Information

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| IGS-801T | 8-port 10/100/1000Mbps Industrial Gigabit Ethernet Switch (-40~75 degrees C operating temperature) |
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Related Products

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|-----------|---|
| IGS-501T | 8-port 10/100/1000T Industrial Gigabit Ethernet Switch (-40~75 degrees C operating temperature) |
| IGS-801M | 8-Port 10/100/1000T Managed Industrial Ethernet Switch (-40~75 degrees C operating temperature) |
| PWR-40-24 | 40W 24V DC Single Output Industrial DIN Rail Power Supply (-20 ~ 70 degrees C) |
| PWR-60-24 | 60W 24V DC Single Output Industrial DIN Rail Power Supply (-20 ~ 70 degrees C) |
| PWR-75-24 | 75W 24V DC Single Output Industrial DIN Rail Power Supply (-10 ~ 60 degrees C) |