



DESCRIPTION

Environmentally Hardened Design

PLANET Industrial 8-port Gigabit 802.3at PoE+ Switch, IGS-10020HPT, is equipped with a rugged IP30 metal case for stable operation in heavy industrial demanding environments. Thus, the IGS-10020HPT provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curbside traffic control cabinets.

Being able to operate under wide temperature range from -40 to 75 degrees C, the IGS-10020HPT can be placed in almost any difficult environment. The IGS-10020HPT also allows either DIN rail or wall mounting for efficient use of cabinet space.

Redundant Ring, Fast Recovery for Critical Network Applications

The IGS-10020HPT supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) technology, Spanning Tree Protocol (802.1s MSTP), and redundant power input system into customers industrial automation network to enhance system reliability and uptime in harsh factory environments.

The IGS-10020HPT also protects customers industrial network connectivity with switching recovery capability that is used for implementing fault tolerant ring and mesh network architectures. If the Industrial network was interrupted accidentally, the fault recovery times could be less than 50ms to quickly bring the network back to normal operation.

Vehicle and ITS Industrial Ethernet PoE Solution

The IGS-10020HPT is compliant with E-Mark requirements, making it suitable for a variety of in-vehicle applications and surveillance system. To facilitate the 802.3at PoE+ usage with commonly used 12~48V DC power input for transportation and industrial-level applications, the IGS-10020HPT adopts 12~48V DC to 52V power boost technology to solve power source issue but does not require special power supplies. It fulfills the needs of power plus data delivery for surveillance system, video transmission and wireless service on the bus, shuttle and other vehicles.

High Power PoE for Security and Public Service Applications

To fulfill the demand of High Power PoE for network applications with Gigabit speed transmission under wide temperature, the IGS-10020HPT provides 8 10/100/1000Mbps ports featuring IEEE 802.3at Power over Ethernet Plus (PoE+) that combines up to 36-watt power output and data per port over one Cat5E/6 Ethernet cable. As the whole system comes with a total 240-watt PoE budget, the IGS-10020HPT is designed specifically to satisfy the growing demand of higher power consuming network PDs (powered devices) such as multi-channel (802.11a/b/g/n) wireless LAN access points, PTZ (Pan, Tilt & Zoom)/Speed Dome network cameras and other PoE network devices, doubling that of the current conventional 802.3af PoE.

Convenient and Smart ONVIF Devices with Detection Feature

PLANET has newly developed an awesome feature -- ONVIF Support -- which is specifically designed for co-operating with video IP surveillances. From the IGS-10020HPTs GUI, you just need one click to search and show all of the ONVIF devices via network application. In addition, you can upload floor images to the switch and can remotely monitor or inspect an assembly line. Moreover, you can get real-time surveillance information and online/offline status; the PoE reboot can be controlled from the GUI.

Built-in Unique PoE Functions for Surveillance Management

As an Industrial managed PoE Switch for surveillance network, the IGS-10020HPT features the following intelligent PoE management functions:

- PD Alive Check
- Scheduled Power Recycling
- PoE Schedule
- SMTP/SNMP Trap Event Alert

Intelligent Powered Device Alive Check

The IGS-10020HPT PoE Switch can be configured to monitor connected PDs status in real time via ping action. Once the PD stops working and responding, the IGS-10020HPT will recycle the PoE port power and bring the PD back to work. It also greatly enhances the reliability in that the PoE port will reset the PD power, thus reducing administrators management burden.

Scheduled Power Recycling

The IGS-10020HPT allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.

PoE Schedule for Energy Saving

Under the trend of energy saving worldwide and contributing to environmental protection on the Earth, the IGS-10020HPT can effectively control the power supply besides its capability of giving high watts power. The built-in PoE schedule function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a

TECHNICAL CHARACTERISTICS

Brand : PLANET
Part number : IGS-10020HPT
Réseau :

Full duplex : Y
Auto MDI/MDI-X : Y
Design :
Certification : FCC Part 15 Class A, CE
10G support : N
Access Control List (ACL) : Y
ARP inspection : Y
Authentication : MAC-based authentication, Port-based authentication
Auto-negotiation : Y
Basic switching RJ-45 Ethernet ports quantity : 8
Basic switching RJ-45 Ethernet ports type : Gigabit Ethernet (10/100/1000)
BPDU filtering/protection : Y
Broadcast storm control : Y
Console port : RJ-45
Depth : 107 mm
DIN rail mounting : Y
Fiber ethernet cabling technology : 100BASE-FX, 1000BASEBX, 1000BASELX, 1000BASESX
Fiber optic connector : MiniGBIC
Firmware upgradeable : Y
Flow control support : Y
Harmonized System (HS) code : 85176990
Height : 72 mm
Housing material : Aluminium
IGMP snooping : Y
Input voltage : 48 V
Installed SFP modules quantity : 2
International Protection (IP) code : IP30
Jumbo frames : 9000
Jumbo frames support : Y
LED indicators : Y
Link aggregation : Y
Loop protection : Y
MAC address auto-aging supported : Y
MAC address auto-learning supported : Y
MAC address table : 8000 entries
Management protocols : Telnet, SNMP v1/v2c
Multicast support : Y
Networking standards : IEEE 802.1D, IEEE 802.1ab, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z
Number of IP interfaces : 8
Number of queues : 8
Number of VLANs : 4094
Operating relative humidity (H-H) : 5 - 95%
Operating temperature (T-T) : -40 - 75 °C
Port mirroring : Y
Power consumption (typical) : 31.9 W
Power over Ethernet (PoE) : Y
Power over Ethernet (PoE) power per port : 36 W
Power over Ethernet plus (PoE+) ports quantity : 8
Product colour : Black, White
Quality of Service (QoS) support : Y
Rack mounting : N
Redundant power supply (RPS) support : Y

Reset button : Y
Security algorithms : SNMP, SSH, SSL/TLS
Spanning tree protocol : Y
Storage temperature (T-T) : -40 - 85 °C
Store-and-forward : Y
Supported network protocols : IPv4 / IPv6
Switch layer : L2+
Switch type : Managed
Switching capacity : 26 Gbit/s
System event log : Y
Throughput : 14.8 Mpps
Total Power over Ethernet (PoE) budget : 270 W
Traffic classification : Y
Virtual LAN features : Stacked VLAN, Private VLAN, Tagged VLAN, Protocol-based VLAN
VLAN support : Y
Wall mountable : Y
Web-based management : Y
Weight : 1.68 kg
Width : 152 mm