

# Planet Switch managed 8 x 10/100/1000 PoE + 2 x Gigabit SFP an DIN-Schiene montierbar wandmontierbar 130 W Gleichstrom

<b>Artikelnummer</b>	999947541
<b>Gewicht</b>	1kg
<b>Länge</b>	1mm
<b>Breite</b>	1mm
<b>Höhe</b>	1mm



## Produktbeschreibung

Planet Switch managed 8 x 10/100/1000 PoE + 2 x Gigabit SFP an DIN-Schiene montierbar wandmontierbar 130 W Gleichstrom

Produktbeschreibung:

8-port 10/100/1000BASE-T Gigabit Ethernet RJ45 with IEEE 802.3af PoE injector 2 100/1000BASE-X mini-GBIC/SFP slots for SFP type auto detection One RJ45 console interface for basic management and setup Power over Ethernet Complies with IEEE 802.3af Power over Ethernet/end-span PSE Up to 8 IEEE 802.3af devices powered Supports PoE power up to 15.4 watts for each PoE port Auto detects powered device (PD) Circuit protection prevents power interference between ports Remote power feeding up to 100m PoE management features

- Total PoE power budget control
- Per port PoE function enable/disable
- PoE admin-mode control
- PoE port power feeding priority
- Per PoE port power limit
- PD classification detection
- Temperature threshold control
- PoE usage threshold control
- PD alive check
- PoE schedule

Industrial Case & Installation IP30 aluminum case protection DIN rail and wall-mount design 48V DC, redundant power with polarity reverse protect function Supports EFT protection of 6000V DC for power line Supports 6000V DC Ethernet ESD protection -40 to 75 degrees C operating temperature Digital Input & Digital Output 2 Digital Input (DI) 2 Digital Output (DO) Integrate sensors into auto alarm system Transfer alarm to IP network via email and SNMP trap

Layer 2 Features Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex) High performance of Store-and-Forward architecture and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth Storm Control support - Broadcast/Multicast/Unicast Supports VLAN - IEEE 802.1Q tagged VLAN - Up to 255 VLANs groups,

out of 4094 VLAN IDs - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad) - Private VLAN Edge (PVE) - Protocol-based VLAN - MAC-based VLAN - Voice VLAN Supports Spanning Tree Protocol - IEEE 802.1D Spanning Tree Protocol (STP) - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), spanning tree by VLAN - BPDU Guard Supports Link Aggregation - 802.3ad Link Aggregation Control Protocol (LACP) - Cisco ether-channel (static trunk) - Maximum 5 trunk groups, up to 8 ports per trunk group - Up to 16Gbps bandwidth (duplex mode) Provides port mirror (1-to-1) Port mirroring to monitor the incoming or outgoing traffic on a particular port Loop protection to avoid broadcast loops Supports ERPS (Ethernet Ring Protection Switching) Layer 3 IP Routing Features Supports maximum 32 software static routes and route summarization Quality of Service Ingress Shaper and Egress Rate Limit per port bandwidth control 8 priority queues on all switch ports Traffic classification - IEEE 802.1p CoS - IP TOS/DSCP/IP precedence - IP TCP/UDP port number - Typical network application Strict priority and Weighted Round Robin (WRR) CoS policies Supports QoS and In/Out bandwidth control on each port Traffic-policing policies on the switch port DSCP remarking Multicast Supports IGMP snooping v1, v2 and v3 Supports MLD snooping v1 and v2 Querier mode support IGMP snooping port filtering MLD snooping port filtering MVR (Multicast VLAN Registration) Security IEEE 802.1x Port-based/MAC-based network access authentication Built-in RADIUS client to cooperate with the RADIUS servers TACACS+ login users access authentication RADIUS/TACACS+ users access authentication IP-based Access Control List (ACL) MAC-based Access Control List Source MAC/IP address binding DHCP snooping to filter distrusted DHCP messages Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding IP Source Guard prevents IP spoofing attacks IP address access management to prevent unauthorized intruder Management Switch Management Interfaces - Console/Telnet Command Line Interface - Web switch management - SNMP v1 and v2c switch management - SSH/SSL and SNMP v3 secure access Four RMON groups (history, statistics, alarms, and events) IPv6 IP address/NTP/DNS management Built-in Trivial File Transfer Protocol (TFTP) client BOOTP and DHCP for IP address assignment Firmware upload/download via HTTP/TFTP DHCP Relay DHCP Option 82 User Privilege levels control Network Time Protocol (NTP) Link Layer Discovery Protocol (LLDP) SFP-DDM (Digital Diagnostic Monitor) Cable diagnostic technology provides the mechanism to detect and report potential cabling issues Reset button for system reboot or reset to factory default PLANET Smart Discovery Utility for deployment

management Environmentally Hardened Design The Industrial 8-Port Gigabit 802.3af PoE Switch, IGS-10020PT is equipped with rugged IP30 metal case for stable operation in heavy Industrial demanding environments.

With IP30 industrial case protection, the IGS-10020PT 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 in wide temperature range from -40 to 75 degrees C, the IGS-10020PT can be placed in almost any difficult environment.

The IGS-10020PT also allows either DIN rail or wall mounting for efficient use of cabinet space.

Redundant Ring, Fast Recovery for Surveillance System The IGS-10020PT supports redundant ring technology and features strong rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced Redundant Ring technology, Spanning Tree Protocol (802.1w RSTP), and redundant power supply system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments.

The IGS-10020PT also protects customer's 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.

Built-in Unique PoE Functions for Powered Devices Management As a managed PoE Switch for surveillance, wireless and VoIP network, the IGS-10020PT features three special PoE Management functions: PD ALIVE Check Schedule Power Recycle SMTP/SNMP Trap Event Alert PoE Schedule Intelligent Alive Check for Powered Device The IGS-10020PT can be configured to monitor connected PD (Powered Device) status in real-time via ping action.

Once the PD stops working and responding, the IGS-10020PT will resume the PoE port power and bring the PD back to work.

It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.

PoE Schedule for Energy Saving Under the trend of energy saving worldwide and contributing to environmental protection, the IGS-10020PT 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 powerful function to help SMB or Enterprise save power and money.

Digital Input and Digital Output for external Alarm The IGS-10020PT supports Digital Input,

and Digital Output on its front panel. This external alarm enables users to use Digital Input to detect, log external device status (such as door intrusion detector), and send event alarm to the administrators. The Digital Output could be used to alarm the administrators if the IGS-10020PT port is link down, link up or power failure. Layer 3 IPv4 and IPv6 Software VLAN Routing for Secure and Flexible Management To help customers stay on top of their businesses, the IGS-10020 series not only provides ultra high transmission performance and excellent layer 2 technologies, but also IPv4/IPv6 software VLAN routing feature which allows to crossover different VLANs and different IP addresses for the purpose of having a highly secured, flexible management and simpler networking application.

**Robust Layer 2 Features** The IGS-10020PT can be programmed for advanced switch management function, such as dynamic port link aggregation, Q-in-Q VLAN, private VLAN, Rapid Spanning Tree Protocol, Layer 2 to Layer 4 QoS, bandwidth control and IGMP/MLD snooping. The IGS-10020PT provides 802.1Q tagged VLAN and the VLAN groups allowed will be maximally up to 255. The IGS-10020PT not only allows the operation of a high-speed trunk combining multiple ports, but also supports connection fail-over. **Efficient Management** For efficient management, the IGS-10020PT managed switch is equipped with console, web and SNMP management interfaces. With the built-in web-based management interface, the IGS-10020PT offers an easy-to-use, platform independent management and configuration facility. The IGS-10020PT supports SNMP and it can be managed via any based on standard of SNMP v1 and v2 management software. For text-based management mode, the IGS-10020PT can be accessed via Telnet and the console port. Moreover, the IGS-10020PT offers remote secure management by supporting SSH, SSL and SNMPv3 connection which can encrypt the packet content at each session.

**Powerful Security** The IGS-10020PT offers comprehensive Layer 2 to Layer 4 access control list (ACL) for enforcing security to the edge. It can be used to restrict to network access by denying packets based on source and destination IP address, TCP/UDP port number or defined typical network applications. Its protection mechanism also comprises 802.1x Port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy. The IGS-10020PT also provides DHCP Snooping, IP Source Guard and Dynamic ARP Inspection functions to prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrator can now construct highly secured corporate networks with considerably less time and effort than before.

**Flexibility and Extension Solution** The two mini-GBIC slots built in the IGS-10020PT supports dual speed, 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber-optic modules.

Now the administrator can flexibly choose the suitable SFP transceiver according to not only the transmission distance, but also the transmission speed required. The distance can be extended from 550 meters to 2km (multi-mode fiber) up to 10/20/30/40/50/70/120 kilometers (single-mode fiber or WDM fiber).

They are well suited for applications within the enterprise data centers and distributions.

**Perfect Integration Solution for Outdoor IP PoE Camera and NVR System** The IGS-10020PT provides 8 10/100/1000Mbps 802.3af PoE ports and can offer sufficient PoE power for 8 PoE IP cameras at the same time. In addition, with the 2 100/1000BASE-X SFP interfaces, the IGS-10020PT can connect to core fiber switch and send video stream to NVR and monitoring center. Through the high performance switch architecture, the IGS-10020PT facilitates the recorded video files from the 8 PoE IP cameras to be saved in the NVR systems.

Furthermore, the NVR systems can be controlled and monitored both in the local LAN and the remote site via Internet.

The IGS-10020PT undoubtedly brings an ideal secure surveillance system at a lower total cost.

Technische Details:

Allgemein

Gerätetyp

Switch - 10 Anschlüsse - managed

Gehäusetyp

An DIN-Schiene montierbar, wandmontierbar

Untertyp

Gigabit Ethernet

Ports

8 x 10/100/1000 (PoE) + 2 x Gigabit SFP

Power Over Ethernet (PoE)

PoE

PoE-Budget

130 W

Leistung

Switching Fabric-Bandbreite: 20 Gbit/s

Bandbreite: 16 Gbit/s

Durchsatz (64-Byte Paketgröße): 14,8 Mpps

Kapazität

VLAN-Gruppen: 255

ACL-Einträge: 123

Virtuelle Schnittstellen (VLANs): 4094

Einträge in Routingtabelle: 32

Größe der MAC-Adresstabelle

8000 Einträge

Jumbo-Rahmenunterstützung

9KB

Routing Protocol

IGMPv2, IGMP, IGMPv3, MLDv2, MLD

Remoteverwaltungsprotokoll

SNMP 1, RMON, Telnet, SNMP 3, SNMP 2c, HTTP, SSH, CLI

Verschlüsselungsalgorithmus

SSL

Authentifizierungsmethode

RADIUS, TACACS+

Leistungsmerkmale

Flusskontrolle, Vollduplex-fähig, Routing, DHCP Support, Auto-Negotiation, BOOTP-Unterstützung, VLAN-Unterstützung, IGMP Snooping, Port-Spiegelung, Weighted Round Robin (WRR) Queuing, Store-and-Forward, IPv6-Unterstützung, Halbduplex-Modus, Vollduplex-Modus, Firmware aktualisierbar, Spanning Tree Protocol (STP) Support, unterstützt Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP) Support, DHCP-Snooping, Trivial File Transfer Protocol (TFTP) Support, Access Control List (ACL) Support, Quality of Service (QoS), SSH-Unterstützung, Jumbo-Frames-Support, MLD-Snooping, Dynamic ARP Inspection (DAI), Reset-Taste, Cable Diagnostics Function, Bandbreitensteuerung, IPv4-Unterstützung, LLDP-Support, DHCP-Relais, Link Aggregation Control Protocol (LACP), Spoofing-Schutz, IP-MAC-Einbindung, Multicast VLAN Registration (MVR), Class of Service (CoS), gekennzeichnetes VLAN, TFTP-Client, 6KV ESD Protector, Type of Service (ToS), unterstützt DiffServ Code Point (DSCP), Ethernet Ring Protection Switching (ERPS), Bridge protocol data unit (BPDU), Redundant Ring Technology, Link Aggregation, Terminplaner, Digital Diagnostics Monitoring (DDM), 6KV EFT Schutz, Network Timing Protocol (NTP)

Produktzertifizierungen

IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ad, IEEE 802.1ab (LLDP)

Statusanzeiger

Anschluß-Übertragungsgeschwindigkeit, Stromversorgung, fehlschlagen, Link/Aktivität

Erweiterung/Konnektivität

Schnittstellen

8 x 1000Base-T RJ-45 PoE - 15.4 W

2 x 1000Base-X SFP

1 x seriell (Konsole) RJ-45

Stromversorgung

Stromversorgungsgerät

Internes Netzteil

Redundante Stromversorgung

Ja

Erforderliche Netzspannung

DC 48 V

Verschiedenes

Produktzertifizierungen

IEC 60068-2-27, IEC 60068-2-32, IEC 60068-2-6, FCC Part 15 A, IP30

Maße und Gewicht

Breite

15,2 cm

Tiefe

10,7 cm

Höhe

7,2 cm

Gewicht

1,684 kg

Umgebungsbedingungen

Min Betriebstemperatur

-40 °C

Max. Betriebstemperatur

75 °C

Zulässige Luftfeuchtigkeit im Betrieb

5 - 95 % (nicht kondensierend)

Min. Lagertemperatur

-40 °C

Max. Lagertemperatur

85 °C

## Weitere Bilder

