Planet Switch L3 managed 16 x 10/100/1000 PoE+ + 2 x + 2 x SFP an DIN-Schiene montierbar wandmontierbar 320 W Gleichstrom

Artikelnummer	999947556
Gewicht	1kg
Länge	1mm
Breite	1mm
Höhe	1mm

Produktbeschreibung

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16x 10/100/1000BASE-T Gigabit Ethernet RJ45 ports with IEEE 802.3at PoE+ Injector 2x 10/100/1000BASE-T Gigabit Ethernet RJ45 ports 2x 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 802.3at Power over Ethernet Plus/end-span PSE Up to 16 IEEE 802.3af/802.3at devices powered Supports PoE power up to 36 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 Intelligent PoE features - 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 48~56V DC, redundant power with polarity reverse protect function 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 10 trunk groups with 4 ports per trunk group - Up to 8Gbps 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
PLANET Industrial 16-Port Gigabit 802.3at PoE+ Switch, IGS-20160HPT, is equipped with rugged IP30 metal case for stable operation in heavy Industrial demanding environments.
With IP30 industrial case protection, the IGS-20160HPT 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-20160HPT can be placed in almost any difficult environment.
The IGS-20160HPT also allows either DIN rail or wall mounting for efficient use of cabinet space.
  Redundant Ring, Fast Recovery for Surveillance System The IGS-20160HPT 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-20160HPT 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.
  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-20160HPT provides 16 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 Cat.5E/6 Ethernet cable.
With a total 320-watt PoE budget on the whole system, the IGS-20160HPT is designed specifically to satisfy the growing demand of higher power consuming network PDs (powered devices) such as PTZ (Pan, Tilt & Zoom)/Speed Dome network cameras, multi-channel (802.11a/b/g/n) wireless LAN access points and other PoE network devices by providing PoE power, doubling that of the current conventional 802.3af PoE.
  Intelligent Alive Check for Powered Device
The IGS-20160HPT PoE Switch can be configured to monitor connected PD’s status in real time via ping action.
Once the PD stops working and responding, the IGS-20160HPT 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 administrator’s management burden.

PoE Schedule for Energy Saving Under the trend of energy saving worldwide and contributing to environmental protection on the Earth, the IGS-20160HPT 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 SMBs or enterprises save power and money.

Digital Input and Digital Output for External Alarm The IGS-20160HPT supports Digital Input and Digital Output on its front panel. This external alarm enables users to use Digital Input to detect and 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-20160HPT port shows 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-20160HPT 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-20160HPT can be programmed for advanced switch management functions 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 snooping. The IGS-20160HPT provides 802.1Q tagged VLAN, and the VLAN groups allowed will be maximally up to 255. Via aggregation of supporting ports, the IGS-20160HPT allows the operation of a high-speed trunk combining multiple ports. It enables a maximum of up to 10 trunk groups with 4 ports per trunk group, and supports fail-over as well. Efficient Management For efficient management, the IGS-20160HPT Managed Ethernet Switch is equipped with console, Web and SNMP management interfaces. With the built-in Web-based management interface, the IGS-20160HPT offers an easy-to-use, platform-independent management and configuration facility. For text-based management, the IGS-20160HPT can be accessed via Telnet and the console port. Moreover, it also offers secure remote management via any standard-based management software by supporting SNMP v3 connection which encrypts the packet content at each session.

Powerful Security The IGS-20160HPT offers comprehensive Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge.

It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports 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 network administrators 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-20160HPT support dual speed, 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber-optic modules, meaning the administrator now 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 (multi-mode fiber) to 10/50/70/120 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-20160HPT provides 16 10/100/1000Mbps 802.3at PoE+ ports and can offer sufficient PoE power to 16 PoE IP cameras at the same time.
In addition, with the 2 100/1000BASE-X SFP interfaces, the IGS-20160HPT can connect to core fiber switch and send video stream to NVR and monitoring center.
Through the high-performance switch architecture, the IGS-20160HPT facilitates the recorded video files from the 16 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-20160HPT undoubtedly brings an ideal secure surveillance system at a lower total cost.
Technische Details:

Allgemein
Gerätetyp
Switch - 20 Anschlüsse - L3 - managed
Gehäusetyp
An DIN-Schiene montierbar, wandmontierbar
Untertyp
Gigabit Ethernet
Ports
16 x 10/100/1000 (PoE+) + 2 x 10/100/1000 + 2 x SFP
Power Over Ethernet (PoE)
PoE+
PoE-Budget
320 W
Leistung
Switching Fabric-Bandbreite: 40 Gbit/s
Durchsatz (64-Byte Paketgröße): 29,7 Mpps

Kapazität
ACL-Einträge: 123
Einträge in Routingtabelle: 32
Jumbo-Rahmenunterstützung
9KB
Routing Protocol
IGMPv2, IGMP, IGMPv3, MLDv2, MLD
Remoteverwaltungsprotokoll
SNMP 1, SNMP 2, Telnet, SNMP 3, HTTP, TFTP, SSH
Verschlüsselungsalgorithmus
SSL
Authentifizierungsmethode
RADIUS, TACACS+
Leistungsmerkmale
DHCP Support, BOOTP-Unterstützung, VLAN-Unterstützung, Auto-Uplink (Auto MDI/MDI-X), IGMP Snooping, Port-Spiegelung, E-Mail-Meldung, Weighted Round Robin (WRR)-Warteschlange, Store-and-Forward, Broadcast Storm Control, IPv6-Unterstützung, Halbduplex-Modus, Vollduplex-Modus, Multicast Storm Control, Unicast Storm Control, Spanning Tree Protocol (STP)-Unterstützung, Rapid Spanning Tree Protocol (RSTP)-Unterstützung, Multiple Spanning Tree Protocol (MSTP)-Unterstützung, DHCP-Snooping, Unterstützung für Access Control List (ACL), Quality of Service (QoS), IP Precedence, Cable Diagnostics Function, Bandbreitensteuerung, IPv4-Unterstützung, LLDP-Support, DHCP-Relais, Link Aggregation Control Protocol (LACP), Multicast VLAN Registration (MVR), Verhindern von Schleifenbildung, Class of Service (CoS), 6KV ESD Protector, Type of Service (ToS), DiffServ Code Point (DSCP)--Unterstützung, Ethernet Ring Protection Switching (ERPS), protokollbasierter VLAN-Support, IP-Quellwächter, ARP-Inspektion, Bridge protocol data unit (BPDU), Digital Diagnostics Monitoring (DDM), Network Timing Protocol (NTP), VLAN Double Tagging (Q-in-Q)
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 802.1ab (LLDP), IEEE 802.3at
Statusanzeiger
Stromversorgung, fehlschlagen, Alarm, PoE, Link/Aktivität
Erweiterung/Konnektivität
Schnittstellen
16 x 1000Base-T RJ-45 PoE+ - 36 W
2 x 1000Base-T RJ-45
2 x 1000Base-X SFP
1 x seriell (Konsole) RJ-45
Stromversorgung
Stromversorgungsgerät
Internes Netzteil
Redundante Stromversorgung
Ja
Erforderliche Netzspannung
DC 48 - 56 V
Verschiedenes
Produktzertifizierungen
IEC 60068-2-27, IEC 60068-2-32, IEC 60068-2-6, FCC Part 15 A, IP30
Maße und Gewicht
Breite
8,4 cm
Tiefe
10,7 cm
Höhe
15,2 cm
Gewicht
1,533 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

Produkteigenschaften

Netzwerk - Formfaktor	An DIN-Schiene montierbar, Wandmontierbar
Netzwerk - Typ	Switch
Ports (dritte) - Typ	SFP (mini-GBIC)
Ports - Typ	10/100/1000 (PoE+)
Statusanzeiger	Link/Aktivität, PoE, Stromversorgung, Fehlschlagen, Alarm
Bereitgestellte Schnittstelle - Schnittstellen	1 x seriell (Konsole) RJ-45, 16 x 1000Base-T RJ-45 PoE+ - 36 W, 2 x 1000Base-T RJ-45, 2 x 1000Base-X SFP
Verschlüsselungsalgorithmus	SSL
Anz. Anschlüsse	20
Kapazität - Kapazität	ACL-Einträge: 123, Einträge in Routingtabelle: 32
Leistung	Durchsatz (64-Byte Paketgröße): 29,7 Mpp, Switching Fabric-Bandbreite: 40 Gbit/s
Gewicht	1,533 kg
Untertyp	Gigabit Ethernet
Farbkategorie	Schwarz
Ports (zweite) - Typ	10/100/1000
Menge	2
Redundante Stromversorgung	Ja

Weitere Bilder