

Planet gemanaged L2+ Schwarz Netzwerk-Switch Industrial 4-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch

PLANET IGS-5225-4T2S kaufen. Managed L2+ Switch mit 4x Gigabit & 2x SFP, schnelle Lieferung und super Service. Jetzt bei Future-X bestellen!

Artikelnummer 993318465

Gewicht 1kg

Länge 1mm

Breite 1mm

Höhe 1mm



Produktbeschreibung

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Produktbeschreibung:

Physical Port 4 10/100/1000BASE-T Gigabit Ethernet RJ45 ports 2 100/1000BASE-X mini-GBIC/SFP slots for SFP type auto detection One RJ45 console interface for basic management and setup Industrial Case and Installation IP30 metal case DIN rail and wall-mount design 12~48V DC, redundant power with polarity reverse protect function 24V AC power input acceptable Supports 5000V DC Ethernet ESD protection -40 to 75 degrees C operating temperature 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 4 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 loopsv Supports ERPS (Ethernet Ring Protection Switching) Layer 3 IP Routing Features Supports maximum 32 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 An Ideal Fiber Switch with Limited Space PLANET IGS-5225-4T2S is the smallest, fully-managed Gigabit fiber switch in the industrial networking industry that features 4 10/100/1000Mbps copper ports, 2 100/1000X SFP ports and redundant power system in an IP30 rugged but compact-sized case, can be installed in any difficult environment without space limitation. Within such slim enclosure, it provides user-friendly yet advanced IPv6/IPv4 management interfaces, abundant L2/L4 switching functions and Layer 3 static routing capability. The IGS-5225-4T2S can operate stably under the

temperature range from -40 to 75 degrees C and allows either DIN rail or wall mounting for efficient use of cabinet space.

With 2 dual-speed SFP fiber slots, it can be flexibly applied to extend the connection distance.

Redundant Ring, Fast Recovery for Critical Network Applications The IGS-5225-4T2S 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 customer's industrial automation network to enhance system reliability and uptime in harsh factory environments.

In a certain simple Ring network, the recovery time of data link can be as fast as 20ms.

SMTP/SNMP Trap Event Alert The IGS-5225-4T2S provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection,

or the rebooting response. **Effective Alarm Alert for Better Protection** The IGS-5225 series supports a Fault Alarm feature which can alert the users when there is something wrong with the switches.

With this ideal feature, the users would not have to waste time finding where the problem is.

It will help to save time and human resource.

Layer 3 IPv4 and IPv6 Software VLAN Routing for Secure and Flexible Management To help customers stay on top of their businesses, the IGS-5225 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-secure,

flexible management and simpler networking application.

Robust Layer 2 Features The IGS-5225 series 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-5225 series provides 802.1Q tagged VLAN, and the VLAN groups allowed will be maximally up to 255.

Via aggregation of supporting ports, the IGS-5225-4T2S allows the operation of a high-speed trunk combining multiple ports.

It enables a maximum of up to 10 trunk groups with 8 ports per trunk group,

and supports fail-over as well. **Efficient Management**

For efficient management, the IGS-5225 Managed Ethernet Switch series is

equipped with console, Web and SNMP management interfaces. With the built-in Web-based management interface,

the IGS-5225 series offers an easy-to-use, platform-independent management and configuration facility.

For text-based management, the IGS-5225 series can be accessed via Telnet and the console port.

Moreover, it also offers secure remote management via any standard-based management software by supporting SNMPv3 connection which encrypts the packet content at each session.

Powerful Security The IGS-5225 series 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-secure corporate networks with considerably less time and effort than before.

Flexibility and Extension Solution The additional two mini-GBIC slots built in the IGS-5225-4T2S 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.

Intelligent SFP Diagnosis Mechanism The IGS-5225 series supports SFP-DDM (Digital Diagnostic Monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

1588 Time Protocol for Industrial Computing Networks The IGS-5225 series is ideal for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.

Modbus TCP provides Flexible Network Connectivity for Factory Automation With the supported Modbus TCP/IP protocol, the IGS-5225 series can easily integrate with SCADA systems, HMI systems and other data acquisition systems in factory floors. It enable administrators to remotely monitor the industrial Ethernet switch's operating information, port information and communication status, thus easily achieving enhanced monitoring and maintenance

of the entire factory.

Technische Details:

Allgemein

Gerätetyp

Switch - 6 Anschlüsse - L2+ - managed

Gehäusotyp

An DIN-Schiene montierbar

Untertyp

Gigabit Ethernet

Ports

4 x 10/100/1000 + 2 x SFP

Leistung

Switching Fabric-Bandbreite: 12 Gbit/s

Durchsatz (64-Byte Paketgröße): 8,9 Mpps

Kapazität

VLAN-Gruppen: 255

VLAN IDs: 4094

Größe der MAC-Adresstabelle

8000 Einträge

Jumbo-Rahmenunterstützung

9KB

Routing Protocol

IGMPv2, IGMP, IGMPv3, MLDv2, MLD

Remoteverwaltungsprotokoll

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

Leistungsmerkmale

Flusskontrolle, Auto-Negotiation, VLAN-Unterstützung, Auto-Uplink (Auto MDI/MDI-X), IGMP Snooping, Port-Spiegelung, Store-and-Forward, Access Control List (ACL) Support, MLD-Snooping, Multicast VLAN Registration (MVR), protokollbasierter VLAN-Support, Link Aggregation, Voice VLAN, Weighted Round Robin (WRR), MAC based VLAN, 5 KV ESD-Schutz

Produktzertifizierungen

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

Statusanzeiger

Stromversorgung, 100M-Gerät angeschlossen, 1000M-Gerät angeschlossen, Fehler, Ring Master

Erweiterung/Konnektivität

Schnittstellen

4 x 1000Base-T RJ-45

2 x 1000Base-X SFP

1 x Konsole RJ-45

Stromversorgung

Erforderliche Netzspannung

AC 24 V / DC 12 - 48 V

Leistungsaufnahme im Betrieb

8.5 Watt

Verschiedenes

Produktzertifizierungen

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

Maße und Gewicht

Breite

3,2 cm

Tiefe

8,7 cm

Höhe

13,5 cm

Gewicht

456 g

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

Bereitgestellte Schnittstelle - Schnittstellen	4 x 1000Base-T RJ-45, 1 x Konsole RJ-45, 2 x 1000Base-X SFP
Netzwerk - Formfaktor	An DIN-Schiene montierbar
Statusanzeiger	1000M-Gerät angeschlossen, Ring Master, Stromversorgung, Fehler, 100M-Gerät angeschlossen
Leistung	Switching Fabric-Bandbreite: 12 Gbit/s, Durchsatz (64-Byte Paketgröße): 8,9 Mpps
Netzwerk - Typ	Switch
Gewicht	456 g
Kapazität - Kapazität	VLAN-Gruppen: 255, VLAN IDs: 4094
Anz. Anschlüsse	6
Größe der MAC-Adresstabelle	8000 Einträge
Ports - Typ	10/100/1000
Produkttyp	Switch
Untertyp	Gigabit Ethernet
Farbkategorie	Schwarz
Leistungsaufnahme im Betrieb	8,5 Watt
Ports (zweite) - Typ	SFP (mini-GBIC)

Weitere Bilder

