

Planet Switch verwaltet 8 x 10/100/1000 + 4 x Gigabit SFP an DIN-Schiene montierbar wandmontierbar AC 24 V / DC 12 -72 V

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Gewicht 1kg

Länge 1mm

Breite 1mm

Höhe 1mm



Produktbeschreibung

Planet Switch verwaltet 8 x 10/100/1000 + 4 x Gigabit SFP an DIN-Schiene montierbar wandmontierbar AC 24 V / DC 12 -72 V

Produktbeschreibung:

8-Port 10/100/1000BASE-T RJ45 copper 4 100/1000BASE-X mini-GBIC/SFP slots,
SFP type auto detection One RJ45 console interface for basic management and setup Industrial Case / Installation IP30 aluminum case protection DIN-rail and wall-mount design Redundant Power Design - 12 to 72V DC, redundant power with polarity reverse protect function - AC 24V power adapter acceptable Supports EFT protection for 6000V DC power and 6000V DC Ethernet ESD protection -40 to 75 degrees C operating temperature Digital Input / Digital Output 2 Digital Input (DI) 2 Digital Output (DO) Integrates sensors into auto alarm system Transfers alarm to IP network via email and SNMP trap Layer 2 Features High performance of Store-and-Forward architecture and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth Storm Control support - Broadcast / Multicast / Unknown Unicast Supports VLAN - IEEE 802.1Q tagged VLAN - Up to 255 VLANs groups, out of 4095 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 - STP, IEEE 802.1D Spanning Tree Protocol - RSTP, IEEE 802.1w Rapid Spanning Tree Protocol - MSTP, IEEE 802.1s Multiple Spanning Tree Protocol by VLAN - BPDU Guard Supports Link Aggregation - 802.3ad Link Aggregation Control Protocol (LACP) - Cisco ether-channel (static trunk) - Maximum 6 trunk groups, up to 8 ports per trunk group - Up to 16Gbps bandwidth (duplex mode) Provides port mirror (many-to-1) Port Mirroring of the incoming or outgoing traffic

on a particular port Loop protection to avoid broadcast loops Supports E.R.P.S. (Ethernet Ring Protection Switching) IEEE 1588 and Synchronous Ethernet network timing 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 IPv4 IGMP Snooping v1, v2 and v3 Supports IPv6 MLD Snooping v1 and v2 Querier mode support IGMP Snooping port filtering MLD Snooping port filtering MVR (Multicast VLAN Registration) Security Authentication - 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 Access Control List - IP-based Access Control List (ACL) - MAC-based Access Control List Source MAC / IP address binding DHCP Snooping to filter un-trusted DHCP messages Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding IP Source Guard prevents IP spoofing attacks Auto DoS rule to defend DoS attack IP address access management to prevent unauthorized intruder Layer 3 IP Routing Features Supports maximum 32 static routes and route summarization Management IPv4 and IPv6 dual stack management Switch Management Interfaces - Console / Telnet Command Line Interface - Web switch management - SNMP v1, v2c, and v3 switch management - SSH / SSL secure access IPv6 IP Address / NTP / DNS management Built-in Trivial File Transfer Protocol (TFTP) client BOOTP and DHCP for IP address assignment System Maintenance - Firmware upload/download via HTTP / TFTP - Reset button for system reboot or reset to factory default - Dual Images DHCP Relay and DHCP Option82 User Privilege levels control NTP (Network Time Protocol) Link Layer Discovery Protocol (LLDP) and LLDP-MED SFP-DDM (Digital Diagnostic Monitor) Network Diagnostic - ICMPv6 / ICMPv4 Remote Ping - Cable Diagnostic technology provides the mechanism to detect and report potential cabling issues SMTP / Syslog remote alarm Four RMON groups (history, statistics, alarms and events) SNMP trap for interfacing Link Up and Link Down notification System Log PLANET Smart Discovery Utility for deploy management PLANET IGS-12040MT is an Industrial 12-port Full Gigabit Managed Ethernet Switch specially designed to build a full Gigabit backbone to transmit reliable and high speed data in heavy industrial

demanding environments and forward data to remote network through fiber optic.
It provides 8-port 10/100/1000BASE-T copper and 4 extra 100/1000BASE-X SFP fiber optic interfaces delivered in an IP30 rugged strong case with redundant power system.
Besides support for 24Gbps switch fabric to handle extremely large amounts of video, voice and important data in a secure topology, the IGS-12040MT provides user-friendly but advanced IPv6 / IPv4 management interfaces and abundant L2 / L4 switching functions.

It is the best investment for industrial business expanding or upgrading its network infrastructure.

Environmentally Hardened Design With IP30 aluminum industrial case protection, the IGS-12040MT 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.
It also possesses an integrated power supply source with wide range of voltages (12 to 72V DC or 24V AC) for worldwide high availability applications requiring dual or backup power inputs.
Being able to operate under the temperature range from -40 to 75 degrees C, the IGS-12040MT can be placed in almost any difficult environment.

Redundant Ring, Fast Recovery for Critical Network Applications The IGS-12040MT 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 certain simple Ring network, the recovery time of data link can be as fast as 20ms.

Digital Input and Digital Output for External Alarm The IGS-12040MT supports Digital Input and Digital Output on its upper panel.
The external alarm enables users to use Digital Input to detect external device's 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-12040MT port is link-down, link-up or power-dead. Robust Layer2 Features The IGS-12040MT can be programmed for advanced switch management function, such as dynamic port link aggregation, Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP), Layer 2/4 QoS, bandwidth control and IGMP/MLD snooping. The IGS-12040MT allows the operation of a high-speed trunk combining multiple ports.
It enables a maximum of up to 6 groups of 8 ports for trunking and supports connection fail-over as well.

IPv6 / IPv4 Full-functioned Secure Switch for Building Automation Networking The IGS-12040MT is the ideal solution to fulfilling the demand of IPv6 management Gigabit Ethernet Switch, especially in the Industrial hardened environment. It supports both IPv4 and IPv6 protocols, advanced Layer 2 to Layer 4 data switching and redundancy, QoS traffic control, network access control and authentication, and Secure Management features to protect customer's industrial and building automation network connectivity with reliable switching recovery capability that is suitable for implementing fault tolerant and mesh network architectures.

IPv4 and IPv6 VLAN Routing for Secure and Flexible Management The IGS-12040MT offers IPv4/IPv6 VLAN routing feature which allows to cross over different VLANs and different IP addresses for the purpose of having a highly-secured, flexible management and simpler networking application.

User-friendly Secure Management For efficient management, the IGS-12040MT is equipped with console, Web and SNMP management interfaces.

With the built-in web-based management interface, the IGS-12040MT offers an easy-to-use, platform independent management and configuration facility. The IGS-12040MT supports SNMP and it can be managed via any management software based on standard of SNMP v1 and v2 protocol.

For reducing product learning time, the IGS-12040MT offers Cisco-like command via Telnet or console port and customer doesn't need to learn new command from these switches.

Moreover, the IGS-12040MT offers remote secure management by supporting SSH, SSL and SNMP v3 connection which can encrypt the packet content at each session.

Flexible and Extendable Solution The 4 mini-GBIC slots built in the IGS-12040MT support dual-speed as it features 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 the transmission distance or the transmission speed required to extend the network efficiently.

Intelligent SFP Diagnosis Mechanism The IGS-12040MT supports SFP-DDM (Digital Diagnostic Monitor) function that can easily monitor real-time parameters of the SFP for network administrator, 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-12040MT is intended for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.

Technische Details:

Allgemein

Gerätetyp

Switch - 12 Anschlüsse - managed

Gehäusotyp

An DIN-Schiene montierbar, wandmontierbar

Untertyp

Gigabit Ethernet

Ports

8 x 10/100/1000 + 4 x Gigabit SFP

Leistung

Switching Fabric-Bandbreite: 24 Gbps

Durchsatz: 17,85 Mpps

Kapazität

Virtuelle Schnittstellen (VLANs): 4095

Einträge in Routingtabelle: 32

Jumbo-Rahmenunterstützung

9KB

Routing Protocol

IGMPv2, IGMP, IGMPv3, MLDv2, MLD

Remoteverwaltungsprotokoll

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

Verschlüsselungsalgorithmus

SSL

Authentifizierungsmethode

RADIUS, TACACS+

Leistungsmerkmale

Flusskontrolle, Routing, DHCP Support, Auto-Negotiation, BOOTP-Unterstützung, VLAN-Unterstützung, Syslog-Unterstützung, Port-Spiegelung, Store-and-Forward, IPv6-Unterstützung, Spanning Tree Protocol (STP) Support, unterstützt Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP) Support, DHCP-Snooping, Access Control List (ACL) Support, Quality of Service (QoS), Dynamic ARP Inspection (DAI), IPv4-Unterstützung, LLDP-Support, Link Aggregation Control Protocol (LACP), SNMP-Trap, Class of Service (CoS), Denial of Service (DoS), 6KV ESD Protector, unterstützt DiffServ Code Point (DSCP), Ethernet Ring Protection Switching (ERPS), IP-Quellwächter, Internet Control Message Protocol (ICMP)

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 802.1ad

Statusanzeiger

Stromversorgung, fehlschlagen, Alarm, Link/Aktivität

Erweiterung/Konnektivität

Schnittstellen

8 x 1000Base-T RJ-45

4 x 1000Base-X SFP

1 x seriell (Konsole)

Stromversorgung

Stromversorgungsgerät

Internes Netzteil

Redundante Stromversorgung

Ja

Erforderliche Netzspannung

AC 24 V / DC 12 -72 V

Leistungsaufnahme im Betrieb

12 Watt

Verschiedenes

Produktzertifizierungen

IEC 60068-2-27, IEC 60068-2-32, IEC 60068-2-6, IP30

Maße und Gewicht

Breite

10,7 cm
 Tiefe
 7,2 cm
 Höhe
 15,2 cm
 Gewicht
 1,01 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
 Zulässige Luftfeuchtigkeit bei Lagerung
 5 - 95 % (nicht kondensierend)

Produkteigenschaften

Bereitgestellte Schnittstelle - Schnittstellen	1 x seriell (Konsole), 4 x 1000Base-X SFP, 8 x 1000Base-T RJ-45
Netzwerk - Formfaktor	An DIN-Schiene montierbar, Wandmontierbar
Netzwerk - Typ	Switch
Statusanzeiger	Link/Aktivität, Stromversorgung, Fehlschlagen, Alarm
Gewicht	1,01 kg
Verschlüsselungsalgorithmus	SSL
Leistung	Switching Fabric-Bandbreite: 24 Gbps, Durchsatz: 17,85 Mpps
Anz. Anschlüsse	12
Ports - Typ	10/100/1000
Produkttyp	Switch
Kapazität - Kapazität	Einträge in Routingtabelle: 32, Virtuelle Schnittstellen (VLANs): 4095
Untertyp	Gigabit Ethernet
Farbkategorie	Schwarz
Ports (zweite) - Typ	Gigabit SFP
Leistungsaufnahme im Betrieb	12 Watt
Redundante Stromversorgung	Ja

Weitere Bilder

