



Industrial IP67-rated 6-Port 10/100/1000T M12 Managed Ethernet Switch (-40~75 degrees C, X-coded M12)



Suitable for Industrial Environment

PLANET IGS-5227-6MT-X, an Industrial Layer 2+ Managed Ethernet Switch, comes with an IP67-rated industrial case, 6-port 10/100/1000T and static Layer 3 routing, providing 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. The IGS-5227-6MT-X can be easily mounted on a DIN-rail or wall taking up less space.



Waterproof and Dustproof M12 Ethernet Connector

The IGS-5227-6MT-X is equipped with a 6-port 10/100/1000BASE-T, autonegotiation, waterproof and dustproof M12 connector. The M12 connector provides tight and strong connection, and guarantees stable Ethernet operation performance under high vibration and shock environment. It comes with the industrial protection rating of IP67 capable of withstanding humidity, dirt, dust, shock, vibrations, heat and cold.

Physical Port

 6-port 10/100/1000BASE-T, waterproof and dustproof M12 X-coded female connectors

Hardware Conformance

- · IP67-rated aluminum case
- · Redundant power design
 - 24 to 48V DC, redundant power with polarity reverse protect function
 - Active-active redundant power failure protection
 - Backup of catastrophic power failure on one supply
 - Fault tolerance and resilience
- · DIN-rail and wall-mount design
- · Supports 6000V DC Ethernet ESD protection
- · -40 to 75 degrees C operating temperature

Layer 3 IP Routing Features

 Supports maximum 32 static routes and route summarization

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 that 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 4095 VLAN IDs
 - Provides Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Protocol-based VLAN
 - MAC-based VLAN
 - IP subnet-based VLAN
 - Voice VLAN





Environmentally Hardened Design

The IGS-5227-6MT-X is able to protect itself from dust and water ingress, and to operate under the temperature range from -40 to 75 degrees C. All these features ensure the highest level of reliability for mission-critical applications in any difficult environment.

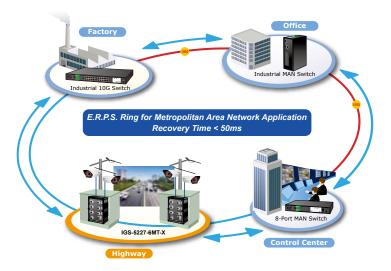


Dual Power Input for High Availability Network System

The IGS-5227-6MT-X features a strong dual power input system (Dual 24V~48V DC) incorporated into customer's automation network to enhance system reliability and uptime. For example, when DC Power 1 fails to work, the hardware failover function will be activated automatically to keep powering the IGS-5227-6MT-X via DC Power 2 alternatively without any loss of operation.

Redundant Ring, Fast Recovery for Critical Network Applications

The IGS-5227-6MT-X 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.



· 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 3 trunk groups, with 6 ports for each trunk
- Up to 12Gbps bandwidth (full duplex mode)
- Provides port mirror (many-to-1)
- · Port mirroring monitors the incoming or outgoing traffic on a particular port
- · Loop protection to avoid broadcast loops
- Supports ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)

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
 - ToS/DSCP/IP precedence of IPv4/IPv6 packets
 - IP TCP/UDP port number
 - Typical network application
- · Strict priority and Weighted Round Robin (WRR) CoS policies
- · 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

- · Authentication
 - IEEE 802.1x port-based/MAC-based network access authentication



SMTP/SNMP Trap Event Alert

Though most NVR or camera management software offers SMTP email alert function, the IGS-5227-6MT-X further provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection.

SMTP/SNMP Trap Event Alert



IPv6/IPv4 Dual Stack

Supporting both IPv6 and IPv4 protocols, the IGS-5227-6MT-X helps data centers, campuses, telecoms, and more to experience the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.

Layer 3 IPv4 and IPv6 VLAN Routing for Secure and Flexible Management

The IGS-5227-6MT-X not only provides ultra high transmission performance, and excellent Layer 2 and Layer 4 technologies, but also Layer 3 IPv4/IPv6 VLAN routing feature which allows to cross over different VLANs and different IP addresses for the purpose of having a highly-secure, flexibly-managed and simple networking application.

Robust Layer 2 Features

The IGS-5227-6MT-X can be programmed for advanced switch management functions such as dynamic port link aggregation, **Q-in-Q VLAN**, private VLAN, **Multiple Spanning Tree Protocol (MSTP)**, Layer 2 to Layer 4 QoS, bandwidth control and **IGMP/MLD Snooping**. Via the link aggregation of supporting ports, the IGS-5227-6MT-X allows the operation of a high-speed trunk to combine with multiple fiber ports and supports fail-over as well.



- IEEE 802.1x authentication with guest VLAN
- Built-in RADIUS client to cooperate with the RADIUS servers
- RADIUS/TACACS+ users access authentication
- · Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
- · 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

- IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
 - Telnet command line interface
 - Web switch management
 - SNMP v1, v2c, and v3 switch management
 - SSH/SSL secure access
- IPv6 address/NTP management
- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- · System Maintenance
 - Firmware upload/download via HTTP/TFTP
 - Dual images
- DHCP relay and option 82
- · User privilege levels control
- NTP (Network Time Protocol)
- Link Layer Discovery Protocol (LLDP) and LLDP-MED
- · Network diagnostic
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
 - ICMPv6/ICMPv4 remote ping
- · SMTP/Syslog remote alarm
- · Four RMON groups (history, statistics, alarms and events)
- · SNMP trap for interface link up and link down notification
- System Log
- PLANET Smart Discovery Utility for deployment management



Powerful Security

The IGS-5227-6MT-X offers a 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 IGS-5227-6MT-X 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 administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

Excellent Traffic Control

The IGS-5227-6MT-X is loaded with powerful traffic management and QoS features to enhance connection services by telecoms and ISPs. The QoS features include wire-speed Layer 4 traffic classifiers and bandwidth limit that are particularly useful for multi-tenant units, multi-business units, Telco and network service providers' applications. It also empowers the industrial environment to take full advantage of the limited network resources and guarantees the best performance in VoIP and video conferencing transmission.

Efficient and Secure Management

With built-in Web-based management interface, the IGS-5227-6MT-X L2+ Managed Switch offers an easy-to-use, platform-independent management and configuration facility which includes Web and SNMP management interfaces. The SNMP can be managed via any management software based on the standard of SNMP Protocol. For reducing product learning time, it offers Cisco-like command via Telnet and customer does not need to learn new console command. Moreover, it also offers secure remote management by supporting SSH, SSL and SNMP v3 connections which encrypt the packet content at each session.

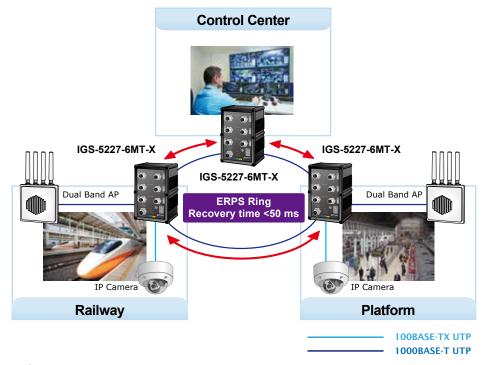




Applications

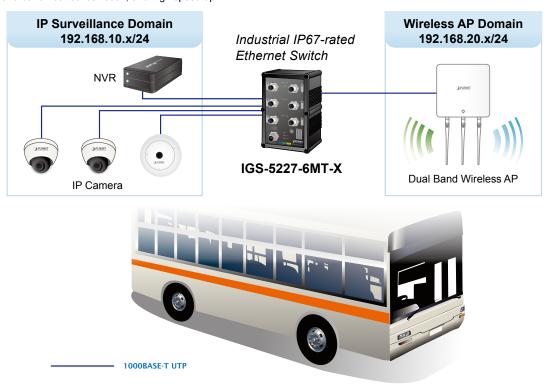
High Availability Networking Solution for Surveillance System

The IGS-5227-6MT-X features strong, rapid, self-recovery capability to prevent interruptions and external intrusions. It incorporates ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) into customer's automation network to enhance system reliability and uptime. The IGS-5227-6MT-X is the ideal solution for surveillance system to build redundant connection and establish high bandwidth for public transmission system and railway transmission.



Layer 2+ VLAN Static Routing

With the built-in robust Layer 3 routing protocols, the IGS-5227-6MT-X ensures reliable routing between VLANs and network segments. The routing protocols can be applied by VLAN interface with up to 32 routing entries. The IGS-5227-6MT-X, certainly an ideal solution for industries, offers greater security, control and bandwidth conservation, and high-speed uplink.





Specifications

Forustical Coper Ports S. x M12, 8-ph X-coded female connector, 10/100/10008ASE-T auto-MD/MDHX ports		
Copper Ports	Product	IGS-5227-6MT-X
Power Consumption Port Status Port Configuration Port Status Port Mirroring Port Status Port Mirroring Port Mirroring Port Mirroring Port Mirroring Port Status Port Mirroring Port Status Port Mirroring Port Mirroring Port Status Port Mirroring Port Status Port Mirroring Po	Hardware Specifications	
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Switch Fabric 120pps/mn-blocking	Power Connector	1 x M12, 5-pin A-coded male connector
Address Table	Switch Architecture	Store-and-Forward
Address Table Renthes, automatic source address learning and aging Shared Data Buffer 4M bits Flow Control IEEE 802.3x pause frame for full-duptex Back pressure for half-duptex Back	Switch Fabric	12Gbps/non-blocking
Address Table Renthes, automatic source address learning and aging Shared Data Buffer 4M bits Flow Control IEEE 802.3x pause frame for full-duptex Back pressure for half-duptex Back	Throughput	8.9Mpps@64bytes
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Back pressure for half-duplex		
Back pressure for half-duplex		
Jumbo Frame Set bytes Dimensions (W x D x H) 103 x 68 2 x 183 mm 1037g Enclosure Installation Well-mount kit and DIN-rail kit System. PWR1 (Green), PWR2 (Green), Fault (Red) Ring (Green), R.D. (Green) 1010/010/0107 RL45 Interfaces: LHK/ACT (Green) Power Consumption Max 6.68 watts/23.41 BTU Power Requirements Dual 24-48 y DC ESD Protection For Configuration Port Configuration Port Configuration Port Configuration Port Mirroring TARX/Both Many-to-1 monitor	Flow Control	
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PWR1 (Green), PWR2 (Green), Fault (Red) Ring (Green), PWR2 (Green) 10/10/1000T RJ45 Interfaces: LWKACT (Green) Max. 6.86 wats/23.41 BTU Power Requirements Dual 24-48V DC ESD Protection 6KV DC ESD Protection Port Configuration Port Configuration Port Configuration Port Status Port Status Display each port's speed duplex mode, link status, flow control status, auto-negotiation status, trunk status TXFXR90th Many-to-1 monitor 802.10 tagged based VLAN O-in-Q tumeling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Protocol-based VLAN NWIR (Multicast VLAN registration) Up to 255 VLAN groups, out of 4096 VLAN IDS Link Aggregation EEEE 802.15 Multiple Spanning Tree Protocol (STP) IEEE 802.15 Multiple Spanning Tree Protocol (MSTP) IEEE 802.15 Multiple Spanning Tree Protocol (MSTP) IEEE 802.15 Multiple Spanning Tree Protocol (MSTP) IEEE 802.16 Multiple Spanning Tree Protocol (MSTP) IEEE 802.16 Multiple Spanning Tree Protocol (MSTP) IEEE 802.17 Many Spanning Tree Protocol (MSTP) IEEE 802.18 Multiple Spanning Tree Protocol (MSTP) IEEE 802.19 priority - 802.10 priority -	Installation	Wall-mount kit and DIN-rail kit
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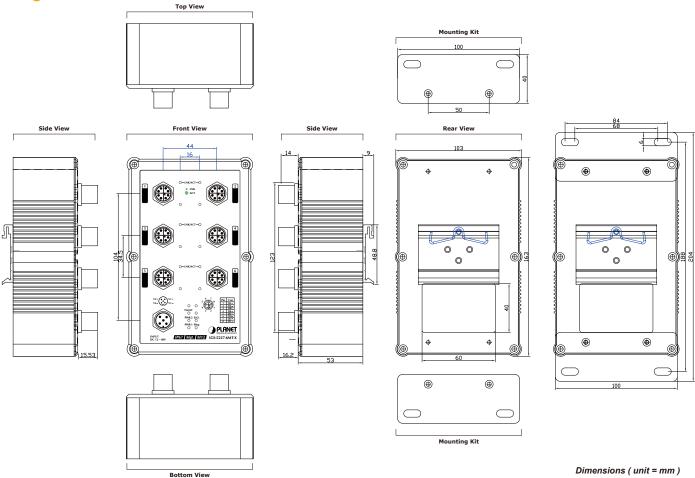


Lover 2 Eupetions	
Layer 3 Functions IP Interfaces	May 9 VI AN interfaces
	Max. 8 VLAN interfaces Max. 32 routing entries
Routing Table	Max. 32 routing entries
Routing Protocols	IPv4 software static routing IPv6 software static routing
Management	
Basic Management Interfaces	Telnet; Web browser; SNMP v1, v2c
Secure Management Interfaces	SSH/SSL, SNMP v3
SNMP MIBs	RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2663 Interface MIB RFC 2665 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2618 RADIUS Client MIB RFC 2638 IF-MIB RFC 2933 IGMP-STD-MIB RFC 29411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4294 IP FORWARD MIB RFC 4295 IP MIB RFC 4296 MAU-MIB IEEE 802.1X PAE
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)
Railway Traffic	EN50155
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3 u 100BASE-TX IEEE 802.3 ab Gigabit 1000T IEEE 802.3 x flow control and back pressure IEEE 802.3 ad port trunk with LACP IEEE 802.1 D Spanning Tree Protocol IEEE 802.1 s Multiple Spanning Tree Protocol IEEE 802.1 s Multiple Spanning Tree Protocol IEEE 802.1 p Class of Service IEEE 802.1 p Class of Service IEEE 802.1 Q VLAN tagging IEEE 802.1 VLAN tagging IEEE 802.1 b LLDP RFC 768 UDP RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 792 ICMP RFC 2236 IGMP v1 RFC 2236 IGMP v2 RFC 23376 IGMP v3 RFC 2710 MLD v1 RFC 3810 MLD v2 ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)
Environment	
Operating	Temperature: -40 ~ 75 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
	Temperature: -40 ~ 80 degrees C



Standard Accessories	
	1 x 8-pin X-coded M12-to-RJ45 UTP cable (2m) 1 x M12 5-pin A-coded female connector power cable (1.2m)
	1 x Wall-mount Kit
Packet Contents	1 x DIN-rail Kit
	1 x Quick Installation Guide
	6 x M12 Female Dust Cap
	1 x M12 Power Waterproof Cap

Diagram





Ordering Information

IGS-5227-6MT-X Industrial IP67-rated 6-Port 10/100/1000T M12 Managed Ethernet Switch (-40~75 degrees C, X-coc	ed M12)
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Related Products

IGS-604HPT-RJ	Industrial IP67-rated 4-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Managed Ethernet Switch (-40~75 degrees C)
IGS-604HPT-M12	Industrial IP67-rated 4-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Managed Ethernet Switch (-40~75 degrees C)
IGS-5226-4P2T	Industrial EN50155 4-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Managed Ethernet Switch (-40~75 degrees C)
ISW-800T-M12	Industrial IP67-rated 8-Port 10/100Mbps M12 Ethernet Switch (-40~75 degrees C)
ISW-804PT-M12	Industrial IP67-rated 8-Port 10/100Mbps M12 Ethernet Switch with 4-Port PoE (-40~75 degrees C)

Accessories

CB-M12X8MRJ-200	8-pin X-coded M12 Male to RJ45 Ethernet Cable (2 meters)

