

IGS-5008T (IP67/IP54)

8 10/100/1000T X-coded EN50155 L2+ Managed Ethernet Switch w/

Enhanced G.8032 Ring

- EN50155/61373/45545-2 verification; 16.8~137.5VDC (WVI) input
- Galvanic isolation between input and system
- Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode, enhanced mode, train mode, multi-VLAN and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI/RSTP; support MRP ring**
- IP67 / IP54 Aluminum housing for best heat dissipation and preventing moist ingress
- Optional bypass in case of power failure, watchdog loss(IP67 Only)
- Environmental Monitoring for temp., voltage, current
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing;
 Complete CLI
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3,TACACS+, QinQ, SMS**
- Protocol based VLAN** : IPv4/IPv6 Subnet based VLAN**
- N-key configurator** for upgrading, auto back up /editable restoration without computer



IP67 model

IP54 model









Frain









OVERVIEW

Lantech IGS-5008T (IP67/IP54) is a high performance EN50155 L2+ all Gigabit Ethernet switch with 8 10/100/1000T at M12 X-coded providing L2 wire speed and advanced security function for network aggregation deployment. It houses in an IP67/IP54 aluminum compact enclosure that is waterproof and will prevent moisture ingress due to temperature fluctuations.

It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports train ring, enhanced mode, multiple VLAN mode with easy configuration. The comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+, SSH/SSL and Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ are supported and also required in large network. It also supports10K Jumbo frame.

Galvanic isolation for WVI input

The IGS-5008T (IP67/IP54) provides galvanic isolation between DC input and system for WVI model.

(16.8V~137.5VDC dual input)

Enhanced G.8032 ring, 16 MSTI MSTP; Optional MRP ring

Lantech IGS-5008T (IP67/IP54) features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering Multicast packets. It also supports various ring topologies that covers double ring, multi-chain (under enhanced ring), train ring, basic ring, multiple-VLAN ring and auto-ring by easy setup than others. The innovative auto-Ring configurator (auto mode) can calculate owner and neighbor in one step. It supports MSTP that allows RSTP over VLAN for redundant links with 16 MSTI.

Optional MRP (Media Redundancy Protocol) can be supported for industrial automation networks.

Re-powered ring restoration, Miss-wiring alert, Loop protection

The IGS-5008T (IP67/IP54) also embedded several features for stronger and reliable network protection in an easy and



intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech IGS-5008T (IP67/IP54) is able to alert with the LED indicator and disable ring automatically. Repowered auto ring restore function (node failure protection) ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. This feature prevents the broken ring and keep ring alive without any re-configuration needed. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

QoS by VLAN for legacy device

QoS by VLAN can allow switch to tag QoS by VLAN regardless the devices acknowledge QoS or not in which greatly enhance the bandwidth management in a network.

QinQ, QoS and GVRP supported

It supports the QinQ, QoS, GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP, router port and static multicast forwarding binding by ports for video surveillance application.

DHCP option 82 & Port based, Mac based DHCP, Option66, IPv6 DHCP server**

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application. Optional IPv6 address resolution for DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-5008T (IP67/IP54) much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Editable configuration file; Optional N key auto backup, Exported text file

The configuration file of Lantech IGS-5008T (IP67/IP54) can be

exported in text file so that it can be edited and configured back to switch with ease for mass deployment. The optional N-key configurator offers firmware upgrade, auto backup/ editable configuration restore without computer by adjusting the DIP switch. The built-in watchdog design can automatically reboot the switch when CPU is found dead.

Event log & message; 4 DI + 3DO

In case of event, the IGS-5008T (IP67/IP54) is able to send an email** & SMS** text message to pre-defined addresses as well as SNMP Traps out immediately. It provides 4DI and 3DO when disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors for events and DO will trigger the alarm while sending alert information to IP network with email and traps.

Environmental monitoring for inside switch info

The built-in environmental monitoring can detect switch overall temperature, voltage and current where can send the SNMP traps, email** and SMS** alert when abnormal.

Relay alarm, High ESD protection

Featured with relay contact alarm function, the IGS-5008T (IP67/IP54) is able to connect with alarm system in case of power failure or port disconnection events. The IGS-5008T (IP67/IP54) also provides ±2000V EFT and±4000 VDC (Contact) / ±8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet.

EN50155, 45545-2, 50121-3-2, 61373 verification*

The IGS-5008T (IP67/IP54) passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke, and EN50155 verification, the IGS-5008T (IP67/IP54) is best for railway in train/track side, vehicle and mining applications. For more usage flexibilities, IGS-5008T (IP67/IP54) supports wide operating temperature from -40°C to 75°C.

Optional GigaT bypass (IP67 Only)

The optional bypass relay is set to bypass the switch to the next one when power is off in order to protect the network from crashing. Lantech bypass caters to remain in bypass mode until the switch is completely booting up when power is back to avoid another network lost.



FEATURES & BENEFITS

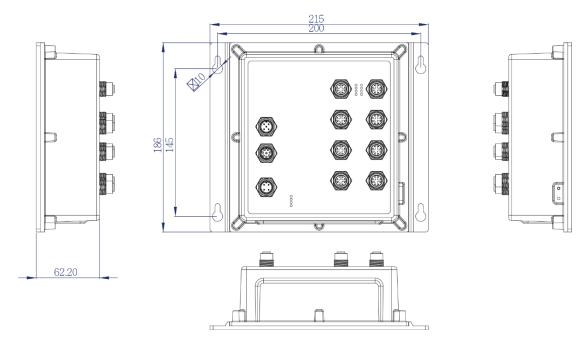
- 8 10/100/1000T X-coded EN50155 Managed IP67/IP54 M12 Ethernet Switch (Total 8 Ports Gigabit Switch)
- EN45545-2 Fire & Smoke,EN50155 and EN61373 shock/vibration verification
- WVI model can accept dual isolated 16.8V~137.5V input
- Back-plane (Switching Fabric): 16Gbps
- 16K MAC address table
- 10KB Jumbo frame
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms < 256 switches
 - Support various ring/chain topologies, including train ring, enhanced ring, basic ring, auto ring & multiple VLAN ring
 - Auto ring configuration(auto mode) for single ring
 - Multi-VLAN mode
 - Basic mode with 3rd party G.8032 switch
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 16 MSTI
- Provides EFT protection ±2000 VDC for power line.
- Supports ±4000 VDC (Contact) and ±8000 VDC (Air)
 Ethernet ESD protection
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ, QoS
- QoS by VLAN tag to prioritize all devices in network
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66; IPv6 address resolution for DHCP server**
- Mac based DHCP server to assign IP address that includes dumb switches in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control
- Relay alarm output system events

- Miss-wiring avoidance
 - LED indicator
- Repowered auto ring restore
 - Ensure the switches in a ring to survive after power breakout is back
 - The status can be shown in NMS when each switch is back
- TFTP/SFTP**/HTTP firmware upgrade
- System Event Log, SMTP Email** alert, SMS** mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH/INGRESS/EGRESS ACL L2/L3
 - Port Security: MAC address entries/Filter/static
 MAC-Port binding
 - IP Security: IP address security management to prevent unauthorized intruder.
 - · TACACS+
 - Login Security: IEEE802.1X/RADIUS
 - HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1.v2.v3 with Query mode for multimedia
- Watchdog design to auto reboot switch CPU is found dead
- Built-in environmental monitoring for system input voltage, current, ambient temperature & total PoE load
- Supports 4 DI+ 3DO (Digital Input/Digital Output)
- IP67/IP54 aluminum housing with wall mount design
- Bypass protection** Bypass failed switch caused by power failure of switch to protect network (IP67 Only)
- Environmental monitoring for system input voltage, current, ambient temperature
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
- Wide operation temperature: -40C~75C/-40F~167F
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification

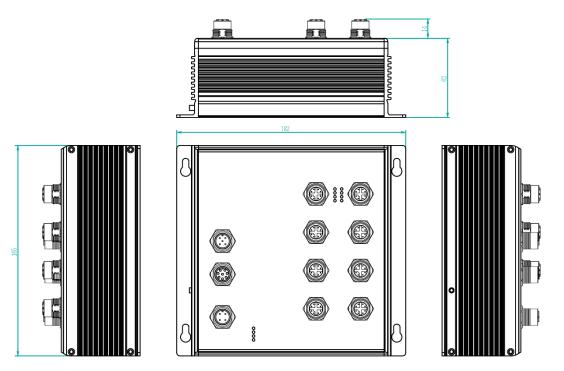


DIMENSIONS (unit=mm)

IP67 model



IP54 model





SPECIFICATION

Standards IEEE 802.3 10Base-T Ethernet IEEE 802.3 10Base-TX IEEE802.3 3 100Base-TX IEEE802.3 3 10Base-TX IEEE802.3 1 10Base-TX IEEE8	Hardware	Specification	Temperature	
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Operating 5% ~ 95% (Non-condensing) Enhal Humidity ease				ring, e
	Operating	5% ~ 95% (Non-condensing)		Enhan
Operating -40°C~75°C / -40°F~167°F Multi-	Humidity			ease
	Operating	-40°C~75°C / -40°F~167°F		Multi-\

Temperature	
Storage	-40°C~85°C / -40°F~185°F
Temperature	
Power Supply	16.8~137.5VDC on WVI model
Power	Max. 13.7W (WVI)
Consumption	,
Dimensions	IP67 model: Aluminum case
	215mm(W)x186mm(H)x91.2mm(D)
	IP54 model: Aluminum case
	182mm(W)x165mm(H)x91mm(D)
Weight	1.4kgs(IP67); 980gs (IP54)
Installation	IP67 model: DIN Rail** and Wall Mount
	Design
	IP54 model: Wall Mount Design
EMI & EMS	FCC Part 15 Class A, IEC/EN61000-6-2
	CE EN55032 Class A CE EN55024:
	CE EN61000-4-2 (ESD) Level 3
	CE EN61000-4-3 (RS) Level 3
	CE EN61000-4-4 (EFT) Level 3
	CE EN61000-4-5 ED3 (Surge) Level 3
	CE EN61000-4-6 (CS) Level 3
	CE N61000-4-8 (Magnetic field) Level 3
Stability	EN61373 (Shock and Vibration)
Testing	Ento for a (entock and vibration)
Verifications &	EN50155//EN50121-3-2/EN50121-4
report	verification
Toport	EN45545-2 R13/R22/R23/R24/R25 (EN
	ISO 4589-2, EN ISO 5659-2, NF X70-
	100-1 & 2) Fire & Smoke verification
MTBF	934,308 Hrs (standards: IEC 62830)
Warranty	5 years
Bypass	Built-in bypass module on uplink ports to
Protection**	pass to next switch in case of power
1 Totoction	failure
Software S	Specification
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
SNMP MIB	RFC 1215 Traps MIB*,
	RFC 1213 MIBII
	RFC 1158 MIBII
	RFC 1157 SNMP MIB,
	RFC 1493 Bridge MIB*
	RFC 1573 IF MIB
	RFC 2674 VLAN MIB*,
	Partial RFC 1757 RMON,
	RFC 2674 Q-Bridge MIB*; Bridge MIB,
	LLDP MIB
	RSTP MIB*
	Private MIB
ITU G.8032	Support ITU G.8032 v2/2012 for Ring
	protection in less than 20ms for self-heal
	recovery (single ring)
	Support various ring/chain topologies
	Includes train ring, auto ring, basic single
	ring enhanced ring multiple \// \AN ring
	ring, enhanced ring, multiple-VLAN ring
	Enhanced G.8032 ring configuration with
	J



User friendly	Auto topology drawing	(MVR)	surveillance application
UI	■ Topology demo	Bandwidth	Support ingress packet filter and egress
	Auto configuration for	Control	packet limit.
	G.8032(auto mode) for single ring		The egress rate control supports all of
	Complete CLI for professional		packet type.
De et Terrel	setting		Ingress filter packet type combination
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups		rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast
LLDP	Supports LLDP to allow switch to advise		packet, Broadcast packet only and all
	its identification and capability on the LAN		types of packet.
CDP	Cisco Discovery Protocol for topology		The packet filter rate can be set an
	mapping		accurate value through the pull-down
Environmental	System status for input voltage, current		menu for the ingress packet filter and the
Monitoring	and ambient temperature to be shown in		egress packet limit.
	GUI and sent alerting if any abnormal	Flow Control	Supports Flow Control for Full-duplex and
\ // ANI	status	System Log	Back Pressure for Half-duplex Supports System log record and remote
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/	System Log	system log server
	VLAN ID (Up to 4K, VLAN ID can be	SMTP/Text	Supports SMTP Server and 8 e-mail
	assigned from 1 to 4096.) GVRP*, QinQ,	SMS**	accounts for receiving event alert; can
	QoS, Protocol based VLAN** ; IPv4/IPv6		send SMS** text alert via mobile
	Subnet based VLAN**	Relay Alarm	Provides one relay output for port
IPv6/4	Present		breakdown, power fail and alarm.
Spanning	Supports IEEE802.1d Spanning Tree and		Alarm Relay current carry ability: 1A @
Tree	IEEE802.1w Rapid Spanning Tree,	Drotoction	DC24V
	IEEE802.1s Multiple Spanning Tree 16MSTI	Protection	Miss-wiring avoidanceRepowered auto ring restore
Quality of	The quality of service determined by port,		Loop protection
Service	Tag and IPv4 Type of service, IPv4	SNMP Trap	Up to 10 trap stations; trap types
	Differentiated Services Code Points -		including:
	DSCP		Device cold start
Class of	Support IEEE802.1p class of service, per		Authorization failure
Service	port provides 8 priority queues		Port link up/link down
QoS by VLAN	QoS by VLAN tag for all devices in the		DI/DO open/close Typelagy shappa(ITIL ring)
ID Conviete	network		Typology change(ITU ring)Power failure
IP Security	Supports 10 IP addresses that have permission to access the switch		Environmental abnormal
	management and to prevent unauthorized	DHCP	Provide DHCP Client/ DHCP
	intruder		Server/DHCP Option 82 (Client &
Login Security	Supports IEEE802.1X		Server)/Port based DHCP; DHCP Option
	Authentication/RADIUS		66; IPv6 address resolution for DHCP
Port Mirror	Support 3 mirroring types: "RX, TX and		server**
	Both packet"	Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
Network	Support 10 IP addresses that have	DNS	Provide DNS client feature and support
Security	permission to access the switch management and to prevent unauthorized		Primary and Secondary DNS server
	intruder.	SNTP	Supports SNTP to synchronize system
	802.1X access control for port based and		clock in Internet
	MAC based authentication/MAC-Port	Firmware	Supports TFTP/SFTP** firmware update,
	binding	Update	TFTP backup and restore; HTTP firmware
	Ingress/Egress ACL L2/L3	No.	upgrade
	SSL/ SSH for Management	N-Key	RJ45 dongle for firmware upgrade, auto
	HTTPS for secure access to the web interface	Configurator** Configuration	backup / editable restoration Supports text configuration file for system
	TACACS+ for Authentication	upload and	quick installation
IGMP	Support IGMP snooping v1,v2,v3; 1024	download	Support factory reset button to restore all
	multicast groups; IGMP router port; IGMP		settings back to factory default
	query; GMRP*	*Future release	
Static	Static multicast forwarding forward	**Optional	
multicast	reversed IGMP flow (MVR) with multicast		
forwarding	packets binding with ports for IP		



ORDERING INFORMATION

All model packages include M12 caps and wall mount bracket. All standard models are non-coating, optional coating models are available with –C model name. Optional bypass models are available with –B model name. (IP67 Only)

■ IGS-5008T-67-WVI......P/N: 8361-425

8 10/100/1000T X-coded EN50155 IP67 L2+ Gigabit Managed Ethernet Switch; 16.8V-137.5VDC dual isolated input ;-40°C to 75°C w/galvanic isolation

IGS-5008T-54-WVI......P/N: 8361-4252

8 10/100/1000T X-coded EN50155 IP67 L2+ Gigabit Managed Ethernet Switch; 16.8V~137.5VDC dual isolated input;-40°C to 75°C w/galvanic isolation

N-key Configurator......P/N: 8850-100

RJ45 connector dongle for firmware upgrade, auto/editable configuration backup and restoration; -20°C to 60°

OPTIONAL ACCESSORIES

M12 Connector & Cable

■ ECONM12-05A(F)-C-180 M12 5Pin (Female) A-coded 180 Degree Crimp Type Connector

■ ECONM12-5P(F)70CM CABLE 5 pin M12 power cable 90 degree angle, 70cm

 ■ ECONM12-5P(M)-W-180
 M12 5P(Male) 180 Degree Wire Type Connector (DI/DO)

 ■ ECONM12-04D(M)-C-180
 Connector,4-pin (Male),M12 D-coded Crimp Type 180 degree

 ■ ECONM12-05A(F)-C-180
 M12 5Pin (Female) A-coded 180 Degree Crimp Type Connector

■ ECAB124030MJS 4 Pin M12 RJ45 Male 3 Meters; STP Cable

■ ECABM12X83MSTP 8 Pin M12 X-coded RJ45 Male 3 METER, STP CABLE w/ Shielding

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