

# **IPGS-5008T**

# 8 10/100/1000T X-coded EN50155 L2+ 8 PoE at/af Managed Ethernet

## Switch w/ Enhanced G.8032 Ring

- EN50155/61373/45545-2 verification; 16.8~137.5V(WVI) or 12~56VDC(24V) input selection
- Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 ETBN IEEE802.3at/af up to 30W per port; PoE budget up to 80W
- PoE management incl. detection and scheduling
- Galvanic isolation between input, PoE and output as well as case (WVI model)
- 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
- Environmental Monitoring for temp., input voltage, current and total PoE load
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing;
   Complete CLI
- Support LACP link aggregation, MLD snooping, IGMP v3/router port, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, QinQ, TACACS+\*\*
- Protocol based VLAN ; IPv4 Subnet based VLAN
- N-key configurator\*\* for upgrading, auto back up /editable restoration without computer

























Lantech IPGS-5008T (IP67/IP54) is a high performance L2+ All Gigabit Ethernet switch with 8 10/100/1000T w/8 PoE at/af ports up to 30W @ at M12 X-coded providing advanced security function for network aggregation deployment. It houses in a 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, SSH v2/SSL, TACACS+\*\*, 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.

Selection of dual WVI (16.8V~137.5VDC) input and 24V

## (12V~56VDC), High PoE budget

WVI model w/galvanic isolation accepts 16.8~137.5VDC dual input and can feed 54V output with max 80W PoE budget. 24V model w/system isolation accept 12~56VDC dual input for PoE feeding with max 80W budget.

A voltage which can be minimal 0,5 Un nominal voltage (when Vin  $\ge$  36V) and/or a voltage which can be maximal 1,5 Un nominal voltage for more than 1000 consecutive ms (one second).

### PoE +, Advanced PoE management

Lantech IPGS-5008T (IP67/IP54) supports IEEE802.3at/af standard which can feed power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, wireless AP etc. The advanced PoE management includes PoE detection and scheduling besides the regular PoE per port status. PoE detection can detect if the connected PD is hang



IP67 model



IP54 model



up then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Per port PoE status can remotely On/Off the power and display information of voltage, current, watt and PoE temperature.

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

Lantech IPGS-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.

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

#### Node failure protection, Miss-wiring alert, Loop protection

The IPGS-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 IPGS-5008T (IP67/IP54) is able to alert with the LED indicator and disable ring automatically. 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 and 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.

## Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN

Lantech OS1 Ethernet switches comply with IEC 61375-3-4 (ECN) standard. The support of Ethernet Consist Network allows interconnection between end devices located in single consist of train and interoperability with IEC61375-2-5 (TBN).

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. For the ending device which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Basic IPv6 DHCP service can be supported.

#### User friendly GUI, Auto topology drawing

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

#### Optional N-key auto backup, Exported text file

The configuration file of Lantech IPGS-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 IPGS-5008T (IP67/IP54) is able to send an email\*\* 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, real input voltage, current and total PoE load where can send the SNMP traps and email\*\* when abnormal.

### Relay alarm, High ESD protection

Featured with relay contact alarm function, the IPGS-5008T (IP67/IP54) is able to connect with alarm system in case of power failure or port disconnection events. The IPGS-5008T (IP67/IP54) also provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet.

## EN50155, 45545-2, 50121-3-2, EN61373 verification

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



## **FEATURES & BENEFITS**

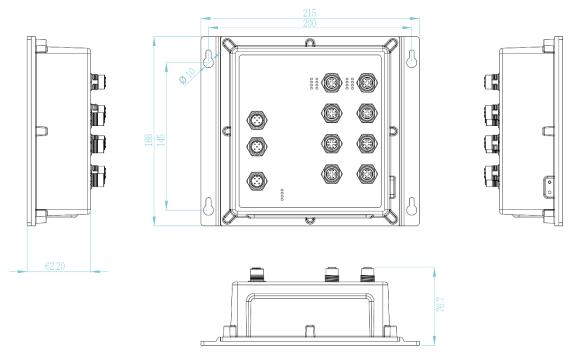
- 8 10/100/1000T X-coded EN50155 PoE Managed IP67/IP54 M12 Ethernet Switch w/8x 802.3at/af PoE ports (Total 8 Ports Gigabit Switch)/ 30W@each port
- EN45545-2 Fire & Smoke,EN50155 and EN61373 shock/vibration verification
- 24V model w/system isolation accepts dual 12~56VDC power input and boost to 54V for PoE 802.3at/af at max 80W budget
- WVI model w/ PoE galvanic isolation accepts dual 16.8~137.5VDC power input and feed 54V for PoE at/af at max 80W budget
- Galvanic isolation from power input/Ethernet ports to system 1.5KV
- 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 3<sup>rd</sup> party G.8032 switch
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 16 MSTI
- 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 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; Basic IPv6 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
- Node failure protection
  - 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/ HTTP firmware upgrade
- MLD Snooping for IPv6 Multicast stream
- System Event Log, SMTP Email\*\* alert and SNMP
   Trap for alarm support; 32 RMON counters
- Security
  - SSL/SSH v2/INGRESS/EGRESS ACL L2/L3
  - MAC address table: 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
- Diagnostic including Ping / ARP table / DDM information
- Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN
- 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

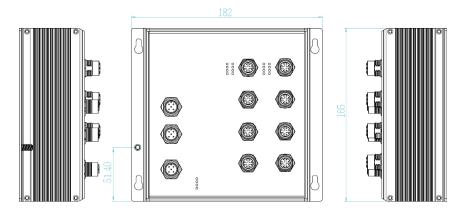


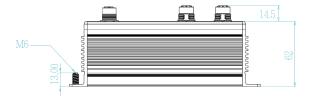
## **DIMENSIONS** (unit=mm)

## IP67 model



## IP54 model







## **SPECIFICATION**

Hardware	Hardware Specification		
Standards	IEEE 802.3 10Base-T Ethernet		
	IEEE 802.3u 100Base-TX		
	IEEE802.3ab 1000Base-T		
	IEEE802.3x Flow Control and Back Pressure		
	IEEE802.3ad Port trunk with LACP		
	IEEE802.1d Spanning Tree		
	IEEE802.1w Rapid Spanning Tree		
	IEEE802.1s Multiple Spanning Tree		
	IEEE 802.3ad Link Aggregation Control Protocol		
	(LACP)		
	IEEE 802.1AB Link Layer Discovery Protocol		
	(LLDP)		
	IEEE 802.1X User Authentication (Radius)		
	IEEE802.1p Class of Service		
	IEEE802.1Q VLAN Tag		
	IEEE802.3at/af Power over Ethernet		
0 11 1	IEEE802.3z Gigabit fiber		
Switch	Back-plane (Switching Fabric): 16Gbps		
Architecture	44 000ppe for Ethernet no		
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port		
	1,488,000pps for Gigabit Ethernet port		
Man Address	16K MAC address table		
Mac Address  Jumbo frame	10KB		
Connectors	10/100/1000T: 8 x ports M12 8-pole X-coded with		
Connectors	Auto MDI/MDI-X function		
	RS-232/Relay connector: 1 x M12 5-pole A-coded		
	DI/DO: 1 x M12 8-pole A-coded		
	Power Input connector :		
	1x M12 5-pole A-coded Male		
Network	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable		
Cable	EIA/TIA-568 100-ohm (100m)		
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		
	EIA/TIA-568 100-ohm (100m)		
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		
	EIA/TIA-568 100-ohm (100m)		
LED	Per unit: Power 1 (Green), Power 2 (Green),		
	FAULT (Red), RM(Green)		
	Ethernet port: Link/Active(Green)		
DI/DO	PoE : Link/Active(Green)		
DI/DO	4 Digital Input (DI) : Level 0: -30~2V / Level 1: 10~30V		
	Max. input current:8mA		
	3 Digital Output(DO): Open collector to 40 VDC,		
	200mA		
Operating	5% ~ 95% (Non-condensing)		
Humidity	9/		
Operating	-40°C~75°C / -40°F~167°F		
Temperature			
Storage	-40°C~85°C / -40°F~185°F		
Temperature			
Power Supply	16.8~137.5VDC on WVI model		
	12~56VDC on 24V model		
Power	Without PoE: Max. 12W		
Power Consumption	Without PoE: Max. 12W With PoE: Max. 13.7W		

PoE Budget	WVI model:		Maximal
	Input Range	Power Input	PoE Budget
	16.8~27VDC	Dual Power Input	80W
	28~137.5VDC	Single Power Input	80W
	24V model:		Maximal
	Input Range	Power Input	PoE Budget
	12~27VDC 28~56VDC	Dual Power Input Single Power Input	80W 80W
PoE pin	M12: port # 1~ #	8 support IEEE 802.3	at/af End-
assignment	point. Per port provides up to 30W		
	10/100/1000	)T	
	000		
	(3 <sup>4</sup> 50)	1:TXD1+ 5:BID 2:TXD1- 6:BID	
	02 4 670	2:TXD1- 6:BID 3:RXD2+ 7:BID	
	010	4:RXD2- 8:BID	3+
Dimensions	IP67 model: Alun	ninum case	
	215mm(W)x186r	nm(H)x76.7mm(D)	
	IP54 model: Alun	ninum case	
	182mm(W)x165r	mm(H)x76.5mm(D)	
Weight	1.4kgs(IP67); 98	• , ,	
Installation		Rail** and Wall Moun	t Design
EMI & EMS	IP54 model: Wal	ŭ	
EIVII & EIVIS	CE EN55024 , C	ss A ,CE EN55022, F EN61000-4-11	
	CE EN61000-4-2		
	CE EN61000-4-3		
	CE EN61000-4-4	(EFT) Level 3	
	CE EN61000-4-5	ED3 (Surge) Level 3	
	CE EN61000-4-6	(CS) Level 3	
	CE EN61000-4-8	3 (Magnetic field) Leve	el 3
Stability	EN61373 (Shock	and Vibration)	
Testing  Verifications &	EN50155//EN50:	121-3-2/EN50121-4 ve	erification
report	EN45545-2 R24/		om out
·	(EN ISO 4589-2,	EN ISO 5659-2,NF X	70-100-1 &
	2) Fire & Smoke	verification	
MTBF	24V: 591,686 (H	rs)	
	WV: 934,308 (Hr	s) (standards: IEC 62	380)
Warranty	5 years		
	Specificati		
Management SNMP MIB	RFC 1213 MIBII	3/ Web/Telnet/CLI	
GIVINI IVIIB	RFC 1158 MIBII		
	RFC 1157 SNMF	P MIB,	
	RFC 1493 Bridge	e MIB*	
	RFC 1573 IF MIE	3	
	Partial RFC 1757	7 RMON,	
	RFC 2674 Q-Brid	dge MIB*	
	LLDP MIB		
ITU 0	Private MIB	000 0/004= 1 = 1	
ITU G.8032		032 v2/2012 for Ring p	
		or self-heal recovery (	single ring)
		ring/chain topologies g, auto ring, basic sing	ale rina.
		nultiple-VLAN ring	, , <del>y</del> ,



	Enhanced G.8032 ring configuration with ease
	Multi-VLAN mode
PoE	PoE Detection to check if PD is hang up
Management	then restart the PD
	PoE Scheduling to On/OFF PD upon
	routine time table
	<ol><li>On/ Off, voltage, current, watts,</li></ol>
	temperature
User friendly	■ Auto topology drawing
UI	■ Topology demo
	■ Auto configuration for G.8032 (auto mode)
	for single ring
	■ Complete CLI for professional setting
MLD	Support IPv6 Multicast stream
Snooping	
Port Trunk	LACP Port Trunk: 8 Trunk groups
with LACP	
LLDP	Supports LLDP to allow switch to advise its
	identification and capability on the LAN
CDP	Cisco Discovery Protocol for topology mapping
Environmenta	System status for input voltage, current, ambient
I Monitoring	temperature and total PoE load to be shown in GUI
	and sent alerting if any abnormal status
VLAN	Port Based VLAN
VEAIN	IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID
	(Up to 4K, VLAN ID can be assigned from 1 to
	4096.) GVRP, QinQ, QoS by VLAN, Protocol based
	VLAN ; IPv4 Subnet based VLAN
0	
Spanning	Supports IEEE802.1d Spanning Tree and
Tree	IEEE802.1w Rapid Spanning Tree, IEEE802.1s
	Multiple Spanning Tree 16MSTI
Quality of	The quality of service determined by port, Tag and
Service	IPv4 Type of service, IPv4 Differentiated Services
	Code Points - DSCP
Class of	Support IEEE802.1p class of service, per port
Service	provides 8 priority queues
QoS by VLAN	QoS by VLAN tag for all devices in the network
IP Security	Supports 10 IP addresses that have permission to
	access the switch management and to prevent
	unauthorized intruder
Login Security	Supports IEEE802.1X Authentication/RADIUS
Port Mirror	Support 3 mirroring types: "RX, TX and Both
	packet"
Network	Support 10 IP addresses that have permission to
Network Security	Support 10 IP addresses that have permission to access the switch management and to prevent
	access the switch management and to prevent
	access the switch management and to prevent unauthorized intruder.
	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC
	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3
	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3  SSL/ SSH v2 for Management
	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3  SSL/ SSH v2 for Management  HTTPS for secure access to the web interface
Security	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3  SSL/ SSH v2 for Management  HTTPS for secure access to the web interface TACACS+** for Authentication
	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3  SSL/ SSH v2 for Management  HTTPS for secure access to the web interface TACACS+** for Authentication  Support IGMP snooping v1,v2,v3; 1024 multicast
Security	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3  SSL/ SSH v2 for Management  HTTPS for secure access to the web interface TACACS+** for Authentication  Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port; IGMP query; GMRP
Security	access the switch management and to prevent unauthorized intruder.  802.1X access control for port based and MAC based authentication/MAC-Port binding Ingress/Egress ACL L2/L3  SSL/ SSH v2 for Management  HTTPS for secure access to the web interface TACACS+** for Authentication  Support IGMP snooping v1,v2,v3; 1024 multicast

forwarding	ports for IP surveillance application	
(MVR)	Our and in many and at filter and a sure a solution	
Bandwidth	Support ingress packet filter and egress packet	
Control	limit.	
	The egress rate control supports all of packet type.	
	Ingress filter packet type combination rules are	
	Broadcast/Multicast/Flooded Unicast packet,	
	Broadcast/Multicast packet, Broadcast packet only	
	and all types of packet.  The packet filter rate can be set an accurate value	
	through the pull-down menu for the ingress packet	
	filter and the egress packet limit.	
Flow Control	Supports Flow Control for Full-duplex and Back	
1 low Control	Pressure for Half-duplex	
System Log	Supports System log record and remote system log	
System Log	server	
SMTP**	Supports SMTP Server and 8 e-mail accounts for	
ONTH	receiving event alert	
Relay Alarm	Provides one relay output for port breakdown,	
Rolay Alailii	power fail and alarm.	
	Alarm Relay current carry ability: 1A @ DC24V	
Protection	■ Miss-wiring avoidance	
1 Totobion	Node failure protection	
ONIMO Terro	Loop protection	
SNMP Trap	Up to 10 trap stations; trap types including:  Device cold start	
	Authorization failure	
	Port link up/link down	
	DI/DO open/close	
	Typology change (ITU ring)	
	Power failure	
	Environmental abnormal	
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option	
	82 (Client & Server)/Port based DHCP; DHCP	
	Option 66; Basic IPv6 DHCP server	
Mac based	Assign IP address by Mac that can include dumb	
DHCP Server	switch in DHCP network	
DNS	Provide DNS client feature and support Primary	
	and Secondary DNS server	
SNTP	Supports SNTP to synchronize system clock in	
	Internet	
ECN	Complies with IEC 61375-3-4 (ECN) standard. The	
	support of Ethernet Consist Network allows interconnection between end devices located in	
	single consist of train and interoperability with	
Dia	IEC61375-2-5 (TBN).	
Diagnostic	Support Ping, ARP table and DDM information	
Firmware	Supports TFTP firmware update, TFTP backup and	
Update	restore; HTTP firmware upgrade	
N-Key	RJ45 dongle for firmware upgrade, auto backup /	
Configuration**	editable restoration	
Configuration	Supports text configuration file for system quick	
upload and	installation	
download	Support factory reset button to restore all settings	
+F	back to factory default	
*Future		
release		

release



## **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.

■ IPGS-5008T-67-WVI......P/N: 8361-4246

8 10/100/1000T X-coded EN50155 M12 IP67 L2+ PoE Managed Gigabit Ethernet Switch; 16.8V $\sim$ 137.5VDC dual input w/ PoE galvanic isolation; PoE max 80W budget; -40 $^{\circ}$ C to 75 $^{\circ}$ C

■ IPGS-5008T-54-WVI......P/N: 8361-4247

8 10/100/1000T X-coded EN50155 M12 IP54 L2+ PoE Managed Gigabit Ethernet Switch; 16.8V~137.5VDC dual input w/ PoE galvanic isolation; PoE max 80W budget; -40°C to 75°C

■ IPGS-5008T-67-24V......P/N: 8361-4203

8 10/100/1000T X-coded EN50155 M12 IP67 L2+ PoE Managed Gigabit Ethernet Switch; 12V~56VDC dual input; PoE budget max 120W; -40°C to 75°C

IPGS-5008T-54-24V......P/N: 8361-4204

8 10/100/1000T X-coded EN50155 M12 IP54 L2+ PoE Managed Gigabit Ethernet Switch; 12V~56VDC dual input; PoE budget max 120W; -40°C to 75°C

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

#### Connector

■ ECONM12-08A(M)-180 8 pin M12 (Male) A-coded 180 degree crimp type connector for reset/console/USB

■ ECONM12-05A(M)-C-180 5 pin M12 (Male) A-coded 180 degree crimp type connector for DI/DO

■ ECONM12-08X(M)-SPEEDCON 8 pin M12 (Male) X-coded 180 degree crimp type connector for data, Ethernet CAT6A (10G), shielded, SPEEDCON

Cable

■ ECABM12X83MSTP 8 pin M12 (Male) X-coded 180 degree RJ45 STP cable for data, shielded, 300cm

■ ECONM12-5P(F)70CM CABLE 5 pin M12 (Female) A-coded 90 degree cable for power supply, 70cm

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