

# I(P)GS-3008

## 8 10/100/1000T L2+ (8/6 PoE at/af) Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring

- Support IEEE802.3at/af up to 30W per port (for PoE model)
- PoE management incl. Detection and Scheduling (for PoE model)
- Enhanced G.8032 ring protection < 20ms for single ring. Supports enhanced mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8 MSTI /RSTP
- 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; DHCP Snooping; Port based DHCP distribution, Mac based DHCP server, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3
- PoE model: Dual 9.5V~56VDC input (12V model); 9~36VDC (24V model); 44V~56VDC input (48V model)
- Non-PoE model: dual 9V~60VDC input (12V model); 9~36VDC (24V model)
- Optional Environmental monitoring function to display inside switch info incl. temperature, voltage, current, power consumption
- Only 24VDC input system is applicable for E-mark approval
- E-marking certificate for vehicle application



Non-PoE model

PoE model



### OVERVIEW

Lantech I(P)GS-3008 is a high performance L2+ all Gigabit switch with 8 10/100/1000T (w/8/6 PoE 802.3af/at) which provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms for single ring, comprehensive QoS, VLAN, GVRP, advanced security SSH v2/SSL, INGRESS ACL L2/L3, IGMPv1/v2/v3/router port, DHCP server/relay, jumbo frame which are important features required in mid and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and to be shown on L2 map topology.

#### **Miss-wiring avoidance, Node failure protection, Loop protection**

The I(P)GS-3008 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 I(P)GS-3008 being 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. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

#### **User friendly GUI, Auto topology drawing**

The user-friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-3008 much easier to get hands-

on. The complete CLI enables professional engineer to configure setting by command line.

#### **Enhanced G.8032 ring, 8 MSTI MSTP**

Lantech I(P)GS-3008 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 enhanced ring and basic ring by easy setup than others. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 8 MSTI.

#### **DHCP option 82 & Port based, Mac based DHCP, Option66, DHCP Snooping**

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 Snooping is supported. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application.

#### **GVRP supported**

It supports the 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.

#### **Editable configuration text file; Factory reset button; CPU watchdog**

The configuration file of Lantech I(P)GS-3008 can be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. Factory reset button can restore the setting back to factory default and built-in watchdog design can automatically reboot the switch when CPU is found dead.

#### **Event log & message; 2 DI + 2 DO**

In case of event, the I(P)GS-3008 being able to send an email to pre-defined addresses as well as SNMP Traps out immediately. It provides 2DI and 2DO. 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.

#### **Relay alarm and email/trap alerting**

Featured with relay contact alarm function, the I(P)GS-3008 being able to connect with alarm system in case of power failure and port disconnection. In case of such event, it will send out email, trap alerting to predefined users.

#### **Dual power input design (12V or 24V or 48V input)**

Lantech IPGS-3008-12V is designed with dual input power at 9.5V~56VDC while IGS-3008-12V is at 9V~60VDC. I(P)GS-3008-24V model allows with 9~36VDC input and 48V model with 44V~56VDC for PoE model. The PoE budget for 12V input is 60W and for 24V input is 120W, for 48V input is 240W. (For PoE Model)

#### **Industrial hardened design for extended temperature operation**

Lantech I(P)GS-3008 provides  $\pm 2000V$  EFT/SURGE and  $\pm 4000$  VDC (Contact) /  $\pm 8000$  VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

#### **E-marking certificate**

The E-marking certificate makes it the most suitable PoE switch for bus, carriage, other vehicles application as well as for industrial areas where the power source is limited with 24V but has demand of IP surveillance or VoIP applications. Only 24VDC input system is applicable for E-mark approval.

#### **Environmental monitoring for switch inside information**

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

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

#### **Editable configuration file**

The configuration file of Lantech I(P)GS-3008 can be exported and edited with word processor for other switches configuration with ease.

The built-in watchdog design can automatically reboot the switch when CPU is found dead.

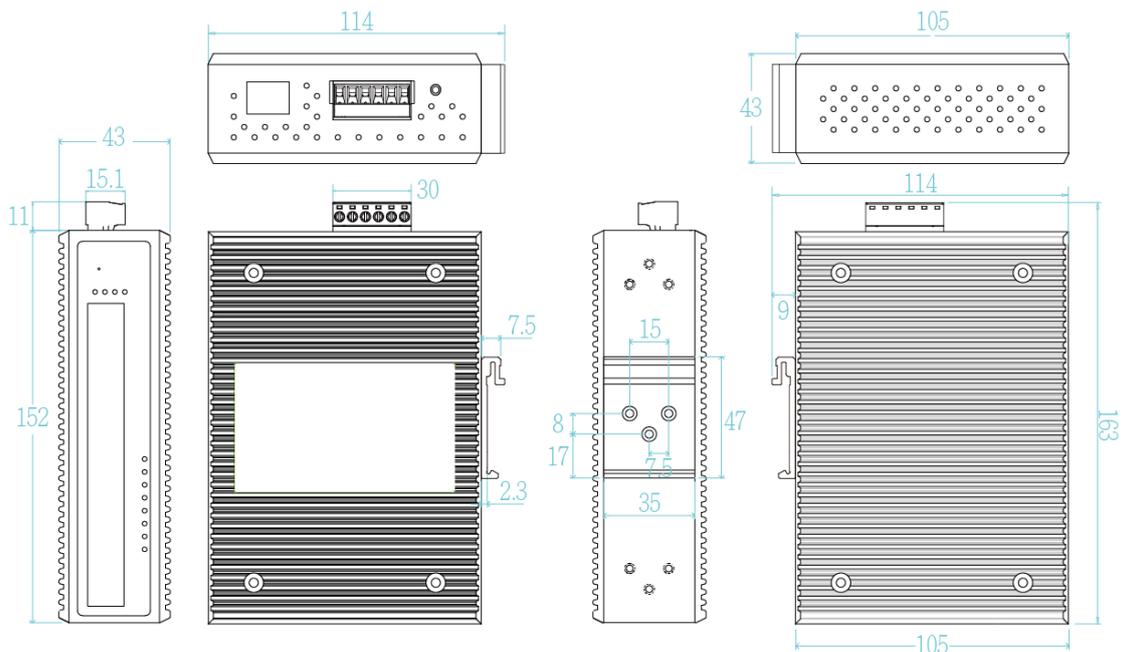
## FEATURES & BENEFITS

- 8 10/100/1000T (w/8/6 PoE 802.3af/at) ports
- Managed Ethernet Switch (Total 8 Ports Switch)
- Dual 9.5V~56VDC power input for 12V model with PoE budget 60W at 12V input, 120W at 24V input, 240W at 48V input (For PoE Model)
- Dual 9V~60VDC power input for 12V model and dual 9V~36VDC power input for 24V model without PoE
- PoE management including PoE detection and scheduling for PD (power devices) (For PoE Model)
- Back-plane (Switching Fabric): 16Gbps
- 16K MAC address table
- 10KB Jumbo frame supported
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms (single ring)
  - Support various ring/chain topologies, including enhanced ring and basic ring

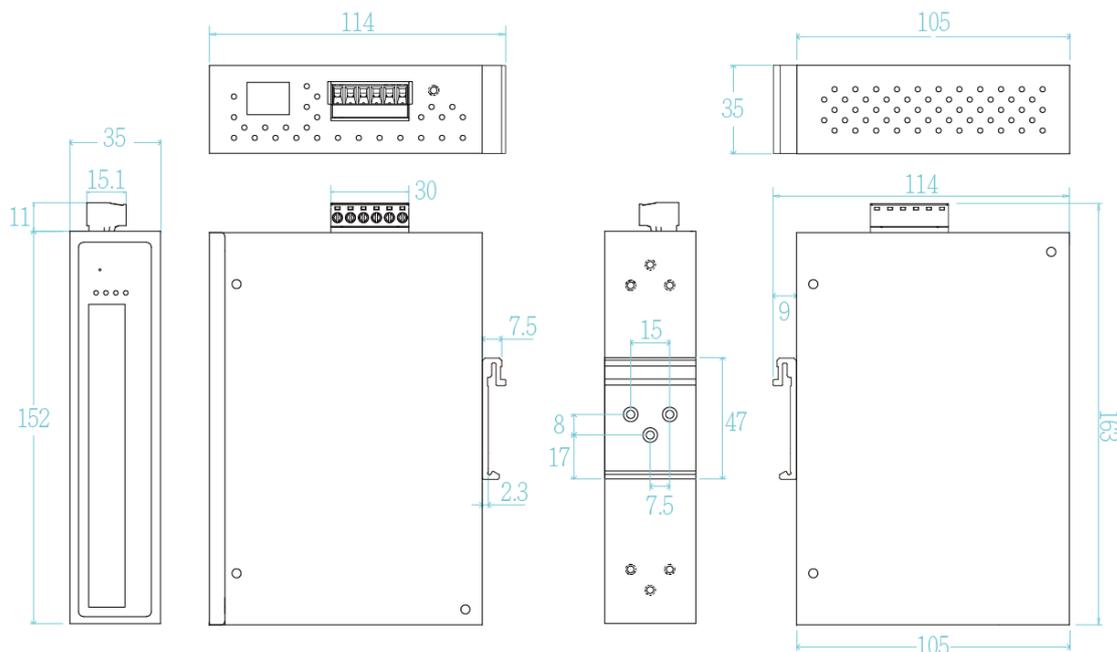
- Enhanced G.8032 ring configuration with ease
- Cover multicast and data packets protection
- Provides EFT/SURGE protection  $\pm 2000$  VDC for power line
- Supports  $\pm 4000$  VDC (Contact) and  $\pm 8000$  VDC (Air) Ethernet ESD protection
- Built-in RTC (Real Time Clock) to keep track of time
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP, 802.1s MSTP VLAN redundancy with 8 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP
- 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 Snooping; DHCP option 66
- Bandwidth Control
  - Ingress packet filter
  - 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
- Configuration backup and restoration
- Supports editable configuration file for system quick installation
- System Event Log and SNMP Trap for alarm support; 32 RMON counters
- Security
  - SSL/SSH v2/INGRESS ACL L2/L3
  - Port Security: MAC address entries/Filter/static MAC-Port binding
  - Remote Admin: IP address security management to prevent unauthorized intruder.
  - 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
- Multicast static forwarding for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring and for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multimedia; GMRP
- Factory reset button to restore setting to factory default
- Optional environmental monitoring for system input voltage, current, ambient temperature
- Watchdog design to auto reboot switch CPU is found dead
- E-marking certificate for vehicle application
- Only 24VDC input system is applicable for E-mark approval
- IP30 metal housing with DIN rail and Wall-mount\*\* design

## DIMENSIONS (unit=mm)

### PoE model



**Non PoE model**



**SPECIFICATION**

Hardware Specification		Software Specification	
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T Ethernet IEEE802.3z Gigabit fiber 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 IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.3at/af Power over Ethernet (For PoE Model)	Power Consumption	9.5~56VDC (12V model) 9~36VDC (24V model) 44~56VDC (48V PoE model) 10W
Switch Architecture	Back-plane (Switching Fabric): 16Gbps	PoE Budget (For PoE Model)	60W at 12V input; 120W at 24V input (12V model) 100W for 9~36VDC at 24V input (24V model) 240W for 45~56VDC at 48V input (48V model) (50~56VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request. **
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber / Gigabit Ethernet port	PoE pin assignment (For PoE Model)	RJ-45 port # 1~# 8(6) support IEEE 802.3at/af End-point. Per port provides up to 30W Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
Flash	128M Byte	Case Dimension	PoE model, Metal case. IP-30, 43 (W) x 105 (D) x 152 (H) mm Non-PoE model, Metal case. IP-30, 35 (W) x 105 (D) x 152 (H) mm
Mac Address	16K MAC address table	Weight	660 g
Jumbo frame	10KB	Installation	DIN Rail and Wall Mount** Design
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & Relay connector: 1 x 6-pole terminal block	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 EN61000-4-8 (Magnetic field) Level 3
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 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)	Safety	EN62368 (LVD)
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Amber); PoE: Link/Act (Green)	Stability Testing	IEC 60068-2-27 (Shock), IEC 60068-2-31 (Shock), IEC 60068-2-64 (Vibration), IEC 60068-2-80 (Vibration)
Operating Humidity	5% ~ 95% (Non-condensing)	Vehicle certificate	E13 marking (24V Model)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	MTBF	791,695 Hrs (Standards: IEC 62380)
Storage Temperature	-40°C~85°C / -40°F~185°F	Warranty	5 years
Power Supply	Non-PoE model: 9~60VDC (12V model) 9~36VDC (24V model) PoE model:	<b>Software Specification</b>	
		Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
		SNMP MIB	MIB MIBII SNMP MIB Bridge MIB

	IF MIB RMON MIB Private MIB	Static MAC-Port bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
Enhanced G.8032 ring	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring enhanced mode) Support various ring/chain topologies Includes basic single ring and enhanced ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection	Bandwidth Control	Support ingress packet filter. 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.
PoE Management (For PoE Model)	1. PoE Detection to check if PD is hang up then restart the PD 2. PoE Scheduling to On/OFF PD upon routine time table	Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
Per Port PoE Status (For PoE Model)	On/ Off, voltage, current, watts, temperature	System Log	Supports System log record and remote system log server
User friendly UI	<ul style="list-style-type: none"> <li>■ Auto topology drawing</li> <li>■ Topology demo</li> <li>■ Complete CLI for professional setting</li> </ul>	Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members	Protection	<ul style="list-style-type: none"> <li>■ Miss-wiring avoidance</li> <li>■ Node failure protection</li> <li>■ Loop protection</li> </ul>
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN	SNMP Trap	Up to 10 trap stations; trap types including: <ul style="list-style-type: none"> <li>● Device cold start</li> <li>● Authorization failure</li> <li>● Port link up/link down</li> <li>● DI/DO open/close</li> <li>● Topology change(ITU ring)</li> <li>● Power failure</li> <li>● Environmental abnormal</li> </ul>
CDP	Cisco Discovery Protocol for topology mapping	DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 (Relay & Server)/Port based DHCP; DHCP Snooping; DHCP option 66
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP	Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
IPv6/4	Present	DNS	Provide DNS Client feature and support Primary and Secondary DNS server.
RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	SNTP	Supports SNTP to synchronize system clock in Internet
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP	Environmental Monitoring**	System status for input voltage, current, consumption and ambient temperature to be shown in GUI and sent alerting if any abnormal status (-M models)
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues	Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Remote Admin	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.	Configuration upload and download	Supports editable configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB port for upload/download configuration by USB dongle
Login Security	Supports IEEE802.1X Authentication/RADIUS		
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"		
Network Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control for port based and MAC based authentication/static MAC-Port binding Ingress ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface		
IGMP	Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP		

\*Future Release  
\*\* Optional Release

## ORDERING INFORMATION

- **IPGS-3008-12V.....P/N: 8350-988**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input; -20°C to 60°C
- **IPGS-3008-12V-E.....P/N: 8350-989**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input, -40°C to 75°C
- **IPGS-3008-6-12V.....P/N: 8350-9893**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input; -20°C to 60°C
- **IPGS-3008-6-12V-E.....P/N: 8350-9894**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input, -40°C to 75°C
- **IPGS-3008-M-12V..... P/N: 8350-9884**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input w/ environmental monitoring; -20°C to 60°C
- **IPGS-3008-M-12V-E.....P/N: 8350-9892**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input w/

- environmental monitoring, -40°C to 75°C

■ **IPGS-3008-6-M-12V.....P/N: 8350-9895**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input w/ environmental monitoring; -20°C to 60°C
- **IPGS-3008-6-M-12V-E.....P/N: 8350-9896**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9.5V~56VDC input w/ environmental monitoring, -40°C to 75°C
- **IPGS-3008-24V.....P/N: 8350-9862**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IPGS-3008-24V-E.....P/N: 8350-9863**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IPGS-3008-6-24V.....P/N: 8350-9897**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IPGS-3008-6-24V-E.....P/N: 8350-9898**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IPGS-3008-M-24V.....P/N: 8350-9864**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input w/ environmental monitoring; compliant with ISO7637-2; -20°C to 60°C
- **IPGS-3008-M-24V-E.....P/N: 8350-9865**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input w/ environmental monitoring, compliant with ISO7637-2; -40°C to 75°C
- **IPGS-3008-6-M-24V.....P/N: 8350-9899**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input w/ environmental monitoring; compliant with ISO7637-2; -20°C to 60°C
- **IPGS-3008-6-M-24V-E.....P/N: 8350-9886**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 9V~36VDC input w/ environmental monitoring, compliant with ISO7637-2; -40°C to 75°C
- **IPGS-3008-48V.....P/N: 8350-986**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44V~56VDC input; -20°C to 60°C
- **IPGS-3008-48V-E.....P/N: 8350-987**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44V~56VDC input, -40°C to 75°C
- **IPGS-3008-6-48V.....P/N: 8350-9872**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 45V~56VDC input; -20°C to 60°C
- **IPGS-3008-6-48V-E.....P/N: 8350-9873**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44V~56VDC input, -40°C to 75°C
- **IPGS-3008-M-48V.....P/N: 8350-9861**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;  
dual 44V~56VDC input w/ environmental monitoring; -20°C to 60°C
- **IPGS-3008-M-48V-E.....P/N: 8350-9871**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44V~56VDC input w/ environmental monitoring, -40°C to 75°C
- **IPGS-3008-6-M-48V.....P/N: 8350-9874**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44V~56VDC input w/ environmental monitoring; -20°C to 60°C
- **IPGS-3008-6-M-48V-E.....P/N: 8350-9875**  
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44V~56VDC input w/ environmental monitoring, -40°C to 75°C
- **IGS-3008-12V.....P/N: 8350-9876**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch, dual 9V~60VDC input; -20°C to 60°C
- **IGS-3008-24V.....P/N: 8350-9885**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IGS-3008-12V-E.....P/N: 8350-9878**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch, dual 9V~60VDC input, -40°C to 75°C
- **IGS-3008-24V-E.....P/N: 8350-9879**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IGS-3008-12V-M.....P/N: 8350-9887**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9V~60VDC input; -20°C to 60°C
- **IGS-3008-24V-M.....P/N: 8350-9888**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C

- **IGS-3008-12V-M-E.....P/N: 8350-9877**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9.5V~60C input, -40°C to 75°C
- **IGS-3008-24V-M-E.....P/N: 8350-9889**  
8 10/100/1000T L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9V~36C input, compliant with ISO7637-2; -40°C to 75°C

## OPTIONAL ACCESSORIES

### DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

### Lantech Communications Global Inc.

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