

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. I(P)GS-3008 also supports dual image firmware function.

Event log & message; 2 DI + 2DO

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 ± 4000 VDC (Contact) / ± 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.

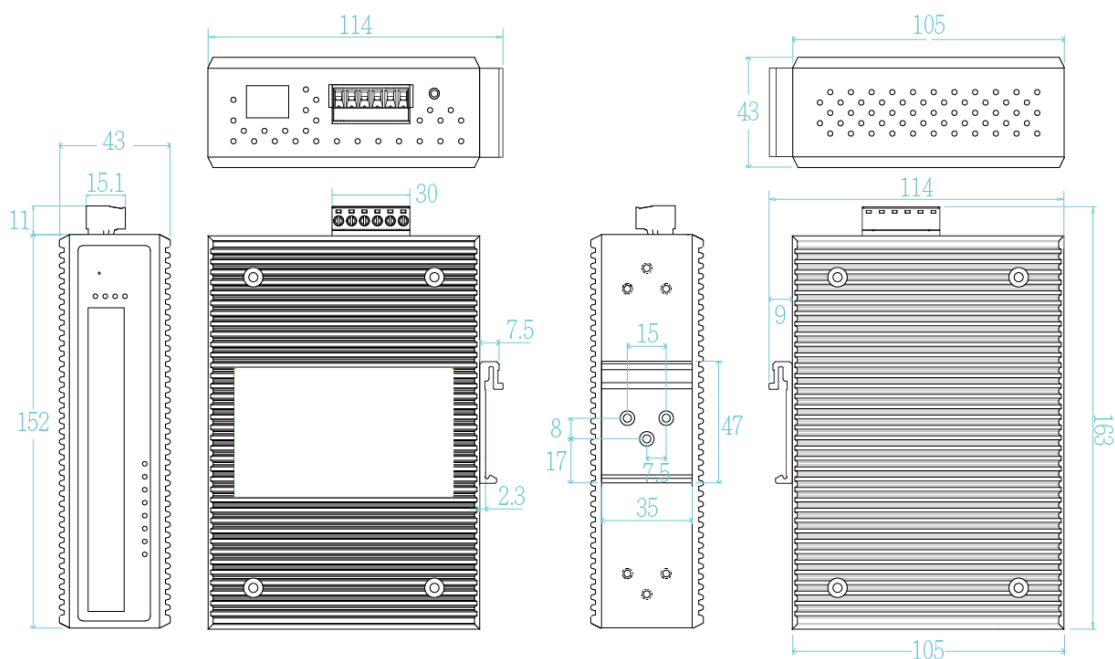
FEATURES & BENEFITS

- | | |
|---|---|
| <ul style="list-style-type: none"> ■ 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) | <ul style="list-style-type: none"> ■ 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) <ul style="list-style-type: none"> • Support various ring/chain topologies, including enhanced ring and basic ring |
|---|---|

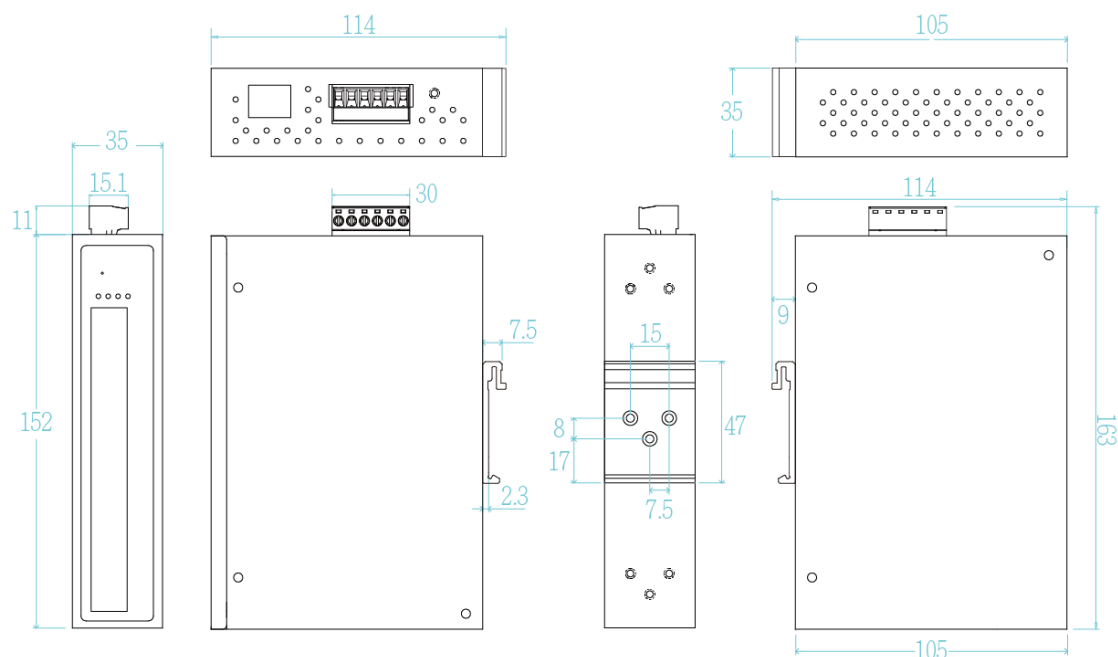
- Enhanced G.8032 ring configuration with ease
- Cover multicast and data packets protection
- Provides EFT/SURGE protection ± 2000 VDC for power line
- Supports ± 4000 VDC (Contact) and ± 8000 VDC (Air) Ethernet ESD protection
- Built-in RTC (Real Time Clock) to keep track of time
- Supports IEEE 802.1p 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, SMTP Email alert 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
- Dual image firmware support
- 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		
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)	9.5~56VDC (12V model) 9~36VDC (24V model) 44~56VDC (48V PoE model)
Switch Architecture	Back-plane (Switching Fabric): 16Gbps	Power Consumption: 10W
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber / Gigabit Ethernet port	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) Higher PoE budget can be applied upon request. **
Flash	128M Byte	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.
Mac Address	16K MAC address table	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
Jumbo frame	10KB	Weight: 660 g
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & Relay connector: 1 x 6-pole terminal block	Installation: DIN Rail and Wall Mount** Design
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)	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
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Amber); PoE: Link/Act (Green)	Safety: EN62368 (LVD)
Operating Humidity	5% ~ 95% (Non-condensing)	Stability Testing: IEC 60068-2-27 (Shock), IEC 60068-2-31 (Shock), IEC 60068-2-32 (Free fall), IEC 60068-2-64 (Vibration), IEC 60068-2-80 (Vibration)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Vehicle certificate: E13 marking (24V Model)
Storage Temperature	-40°C~85°C / -40°F~185°F	MTBF: 791,695 Hrs (Standards: IEC 62380)
Power Supply	Non-PoE model: 9~60VDC (12V model) 9~36VDC (24V model) PoE model:	Warranty: 5 years
Software Specification		
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI	
SNMP MIB	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1573 IF MIB	

	Partial RFC 1757 RMON, Bridge MIB, LLDP MIB, Private MIB		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	■ Auto topology drawing ■ Topology demo ■ Complete CLI for professional setting	SMTP	Supports SMTP Server and 8 e-mail accounts for receiving event alert
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members	Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN	Protection	■ Miss-wiring avoidance ■ Node failure protection ■ Loop protection
CDP	Cisco Discovery Protocol for topology mapping	SNMP Trap	Up to 10 trap stations; trap types including: ● Device cold start ● Authorization failure ● Port link up/link down ● DI/DO open/close ● Topology change(ITU ring) ● Power failure ● Environmental abnormal
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	DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 (Client & Server)/Port based DHCP; DHCP Snooping; DHCP option 66
IPv6/4	Present	Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	DNS	Provide DNS Client feature and support Primary and Secondary DNS server.
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP	SNTP	Supports SNTP to synchronize system clock in Internet
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues	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)
Remote Admin	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.	Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Login Security	Supports IEEE802.1X Authentication/RADIUS	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
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"	Dual Image Firmware	Support dual image firmware function
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		
Static MAC-Port bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP		

*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.

www.lantechcom.tw
info@lantechcom.tw

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