

# **IPGS-3008**

# 8 10/100/1000T L2+ 8 PoE at/af Industrial Managed Switch w/ Enhanced G.8032 Ring; Optional 12V model

- Support IEEE802.3at/af up to 30W per port
- PoE management incl, Detection and Scheduling
- Enhanced G.8032 ring protection < 20ms with basic mode, enhanced mode\*, train mode\* and auto mode\*; Enhanced G.8032 ring covers multicast packets; MSTP 8MSTI/RSTP
- Miss-wiring avoidance & Repowered auto ring restore (node failure protection)
- User friendly UI, including auto topology drawing; Complete CLI.
- Support LACP link aggregation, VLAN, QoS, IGMP v3/router port,
  GVRP\*, DHCP server & client, DHCP Option 82 relay / server\*,
  TACACS+\*, INGRESS/EGRESS ACL L2/L3\*, SSH/SSL\*, IPv6, SMS
- Dual 9.5V~57VDC input(12V model) or Dual 44~57VDC input(48V model)
- N-key \*\* for configuration restore, backup and firmware upgrade









## **OVERVIEW**

Lantech IPGS-3008 is a high performance L2+ all Gigabit switch with 8 10/100/1000T w/8 PoE 802.3af/at Injectors 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/SSL\*, TACACS+\*, INGRESS/EGRESS 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.

PoE at/af up to 8 Giga Ports with detection and scheduling

Lantech IPGS-3008 supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD is hanged then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE ports can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

# Loop protection; Auto ring repowered restore; Alert by email, trap, SMS

The IPGS-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 IPGS-3008 is able to alert with the LED indicator and send out an email, trap or a SMS text. 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.

### User friendly UI; Auto topology drawing; DMI for dB value

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-3008 much easier to get hands-on. The switch also equips the RTC (real time clock) which can keep track of time always. The TX power/RX power raw data is automatically converted to dB values for installer, making it easier to calculate the fiber distance. The complete CLI enables professional engineer to configure setting by command line.

# Enhanced G.8032 Ring < 20ms covering multicast packets for single ring recovery; Enhanced\*/basic/auto\*/train\*mode; MSTP/RSTP

Lantech IGS-3204MGSP 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 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 8 MSTI.

# DHCP server / client; DHCP option 82 relay, port based\*/Mac based DHCP\*

It supports the standard DHCP server/client as well as DHCP option 82 relay. The port based DHCP\* distribution can offer the same IP address on port base where there is need to replace the new device connecting to Lantech switches to avoid any network disruption. The DHCP Option 82 server\* offers the convenience of policy setting on the switch. Mac based DHCP server\* function binds a fixed IP address and a client Mac address to include dumb switches in DHCP network.

#### 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.

# Exported configuration text file; Factory reset button; CPU watchdog

The configuration file of Lantech IPGS-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.

N-key\*\* for back up, restore configuration and upgrade

#### firmware

With N-key\*\*, the configuration file can be mass auto backup, editable restored and auto upgrade firmware for easy maintenance.

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

Featured with relay contact alarm function, the IPGS-3008 is able to connect with alarm system in case of power failure and port disconnection. In case of such event, it will send out email, SMS, trap alerting to predefined users.

# Dual 12V~48V input with boost technology to 54V PoE output for 12V model, PoE budget 80W

Lantech IPGS-3008-12V is designed with dual input power at 9.5V~57VDC while IPGS-3008-48V allows with 44~57VDC input. The PoE budget for 12V input is 80W and for 24V input is 120W.

#### High reliability and extended working temperature

Lantech IPGS-3008 provides ±2000V EFT and ±6000V 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 Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

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

## **FEATURES & BENEFITS**

- 8 10/100/1000T w/8 PoE 802.3af/at Injectors (Total 8 Ports Switch)
- Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W@54V; 15W @ 48V per port for active operation
- Dual 9.5V~57VDC power input for 12V model with PoE budget 80W at 12V input, 120W at 24V input
- Dual 45V~57VDC power input for 48V model with PoE budget 240W
- PoE management including PoE detection and scheduling for PD (power devices)
- Back-plane (Switching Fabric): 16Gbps
- 16K MAC address table
- 10KB Jumbo frame supported on all ports
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms < 256 switches(single ring)
  - Support single ring, double ring, multi-chain topology with easy setup than ever
  - Auto ring configuration\*
  - Basic mode compatible with 3<sup>rd</sup> party ERPS
  - Covers multi-cast and data packets
- Provides EFT protection ±2000 VDC for power line.
- Supports ±6000 VDC ESD contact 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

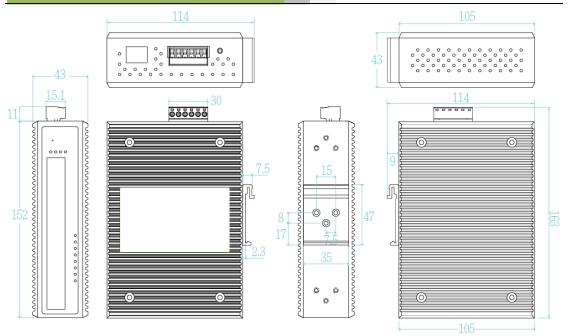
- Type of Service Priority
- IEEE 802.1d STP\*, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 8 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP\*, QoS by VLAN\*
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ Lantech<sup>™</sup>
  InstaConfig\*/ Lantech<sup>™</sup> InstaView\*
- DHCP server / client; DHCP Option 82 relay/ server\*;
  Mac based DHCP\*; Port based DHCP\*
- Bandwidth Control
  - Ingress packet filter and egress rate limit
  - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance
  - LED indicator
  - Email, traps, or SMS notification
- 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/HTTP firmware upgrade; Lantech<sup>TM</sup> InstaConfig\* for multiple upgrade
- Configuration backup and restoration
  - Supports text configuration file for system quick installation



- N-key\*\* for mass configuration auto-backup, editable restoration and auto firmware upgrade
- System Event Log, SMTP Email alert, SMS mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
  - SSL\*/SSH/ L2&L3\*
  - Port Security: MAC address entries/Filter/MAC-Port binding
  - IP Security: IP address security management to prevent unauthorized intruder.
  - Management access control with priority
  - · TACACS+\*
  - INGRESS/EGRESS ACL L2/L3\*
  - Login Security: IEEE802.1X/RADIUS\*

- HTTPS for secure access to the web interface\*
- Static multicast forwarding forward reversed IGMP flow (MVR) 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
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch CPU is found dead
- IP30 metal housing with DIN rail and Wall-mount\*\* design

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



## **SPECIFICATION**

Hardware Specification		CPU	Marvell 1600Mhz
Standards	IEEE802.3 10Base-T Ethernet	RAM	512M Byte
Ciandaras	IEEE802.3u 100Base-TX	Flash	128M Byte
	IEEE802.3ab 1000Base-T Ethernet	Mac Address	16K MAC address table
	IEEE802.3z Gigabit fiber	Jumbo frame	10KB on all ports
	IEEE802.3x Flow Control and Back Pressure	Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X
	IEEE802.3ad Port trunk with LACP		function
	IEEE802.1d Spanning Tree		Power & Relay connector: 1 x 6-pole terminal block
	IEEE802.1w Rapid Spanning Tree	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable
	IEEE802.1s Multiple Spanning Tree		EIA/TIA-568 100-ohm (100m)
	IEEE802.3ad Link Aggregation Control Protocol		100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable
	(LACP)		EIA/TIA-568 100-ohm (100m)
	IEEE802.1AB Link Layer Discovery Protocol (LLDP)		1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable
	IEEE802.1X User Authentication (Radius)		EIA/TIA-568 100-ohm (100m)
	IEEE802.1p Class of Service	Protocol	CSMA/CD
	IEEE802.1Q VLAN Tag	LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT
	IEEE802.3at/af Power over Ethernet		(Red); RM(Green)
Switch Architecture	Back-plane (Switching Fabric): 16Gbps		Ethernet port: Link/Activity (Green), Speed (Amber);
Transfer Rate	14,880pps for Ethernet port		PoE: Link/Act (Green)
	148,800pps for Fast Ethernet port	Operating Humidity	5% ~ 95% (Non-condensing)
	1,488,000pps for Gigabit Fiber / Gigabit Ethernet port	Operating	-20°C~60°C / -4°F~140°F (Standard model)



Temperature	-40°C~75°C / -40°F~167°F(-E model)		IPv4 Type of service, IPv4 Differentiated Services
Storage	-40°C~85°C / -40°F~185°F		Code Points - DSCP
Temperature		Class of Service	Support IEEE802.1p class of service, per port
Power Supply	44~57VDC(48V model); 9.5V~57VDC(12V model)	ID Occurity	provides 8 priority queues
Power	10W	IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent
Consumption PoE Budget	240W for 44~57V input(48V model)		unauthorized intruder.
FOL Budget	80W at 12V input; 120W at 24V input(12V model)	Login Security	Supports IEEE802.1X Authentication/RADIUS*
PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3at/af End-point,	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
	Alternative A mode. Per port provides 30W at	Network Security	Support 10 IP addresses that have permission to
	54~57VDC/15W at 48V~57VDC.		access the switch management and to prevent
	Positive (VCC+): RJ-45 pin 1,2.		unauthorized intruder.
	Negative (VCC-): RJ-45 pin 3,6.		802.1X access control for port based and MAC based
Power	10W		authentication*/MAC-Port binding
Consumption			Management access control with priority* TACACS+*
Case Dimension	Metal case. IP-30, 43 (W) x 105 (D) x 152 (H) mm		INGRESS/EGRESS ACL L2/L3*
Weight	660 g		SSL*/ SSH for Management
Installation	DIN Rail and Wall Mount** Design		HTTPS* for secure access to the web interface
EMI & EMS	FCC Class A, CE EN55022 Class A, CE EN55024, CE	IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP
	EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4,		static route; 256 multicast groups; IGMP router port;
	CE EN61000-4-5 ED3, CE EN61000-4-6, CE		IGMP query; GMRP*
	N61000-4-8, EN61000-4-11	MVR	Static multicast forwarding forward reversed IGMP
	EN61000-6-2, EN61000-6-4; IEC61000-4-5 Ed3		flow (MVR) with multicast packets binding with ports
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),		for IP surveillance application
	IEC60068-2-6 (Vibration)	Bandwidth Control	Support ingress packet filter and egress packet limit.
MTBF	NA		The egress rate control supports all of packet type.
Warranty	5 years		Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet,
Software Sp	ecification		Broadcast/Multicast packet, Broadcast packet only
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI		and all types of packet.
SNMP MIB	RFC 1215 Traps MIB*,		The packet filter rate can be set an accurate value
	RFC 1213 MIBII		through the pull-down menu for the ingress packet
	RFC 1158 MIBII		filter and the egress packet limit.
	RFC 1157 SNMP MIB*,	RTC	Built-in Real Time Clock to keep track of time always
	RFC 1493 Bridge MIB*, RFC 1573 IF MIB	Flow Control	Supports Flow Control for Full-duplex and Back
	RFC 2674 VLAN MIB,		Pressure for Half-duplex
	Partial RFC 1757 RMON,	System Log	Supports System log record and remote system log
	RFC 2674 Q-Bridge MIB*; Bridge MIB*,		server
	LLDP MIB*	SMTP/Text SMS	Supports SMTP Server and 8 e-mail accounts for
	RSTP MIB*		receiving event alert; can send SMS text alert via mobile
	Private MIB	Relay Alarm	Provides one relay output for port breakdown, power
Enhanced G.8032	Support ITU G.8032 v2/2012 for single ring protection	rtolay / tlaiiii	fail and alarm.
ring	in less than 20ms for self-heal recovery;		Alarm Relay current carry ability: 1A @ DC24V
	Support Enhanced mode*,basic mode; auto mode* and train mode*	Protection	■ Miss-wiring avoidance
	Support double ring*, multi-chain ring*, etc.		■ Repowered auto ring restore
	Covers multicast and data packets		■ Loop protection
PoE Management	PoE Detection to check if PD is hang up	SNMP Trap	Up to 10 trap stations; trap types including:
Ů	then restart the PD		Device cold start
	2. PoE Scheduling to On/OFF PD upon routine		Authorization failure     Port link up/link down
	time table		Topology change(ITU ring)
Per Port PoE	On/ Off, voltage, current, watts, temperature		PoE ping failure
Status			Power failure
User friendly UI			
	Auto topology drawing		● Environmental abnormal**
	■ Topology demo	DHCP	Environmental abnormal**  Provide DHCP client/ DHCP Server/ DHCP option 82
	■ Topology demo ■ Auto configuration for G.8032(auto mode)*	DHCP	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*;
	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring		Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP*
Port Trunk with	■ Topology demo ■ Auto configuration for G.8032(auto mode)*	DHCP	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and
Port Trunk with LACP	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting	DNS	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server.
	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk		Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in
LACP	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members	DNS	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet
LACP LLDP CDP	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its	DNS	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and
LACP LLDP	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its identification and capability on the LAN  Cisco Discovery Protocol for topology mapping Port Based VLAN	DNS	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech <sup>TM</sup>
LACP LLDP CDP	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its identification and capability on the LAN  Cisco Discovery Protocol for topology mapping Port Based VLAN  IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up	DNS SNTP Firmware Update	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and
LACP LLDP CDP	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its identification and capability on the LAN  Cisco Discovery Protocol for topology mapping Port Based VLAN  IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.),	DNS	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP*  Provide DNS Client feature and support Primary and Secondary DNS server.  Supports SNTP to synchronize system clock in Internet  Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech TM InstaConfig* for multiple upgrade
LACP LLDP CDP VLAN	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its identification and capability on the LAN  Cisco Discovery Protocol for topology mapping 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*, QoS by VLAN*	DNS SNTP Firmware Update Configuration	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech <sup>TM</sup> InstaConfig* for multiple upgrade Supports text configuration file for system quick installation N-key** for mass firmware auto-backup, editable
LACP LLDP CDP VLAN IPv6/4	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its identification and capability on the LAN  Cisco Discovery Protocol for topology mapping 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*, QoS by VLAN*  Present	DNS SNTP Firmware Update  Configuration upload and	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech <sup>TM</sup> InstaConfig* for multiple upgrade Supports text configuration file for system quick installation
LACP LLDP CDP VLAN	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping 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*, QoS by VLAN* Present Supports IEEE802.1d Spanning Tree and	DNS SNTP Firmware Update  Configuration upload and download	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP*  Provide DNS Client feature and support Primary and Secondary DNS server.  Supports SNTP to synchronize system clock in Internet  Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech™  InstaConfig* for multiple upgrade  Supports text configuration file for system quick installation  N-key** for mass firmware auto-backup, editable restoration and auto upgrade
LACP LLDP CDP VLAN IPv6/4	■ Topology demo ■ Auto configuration for G.8032(auto mode)* for single ring ■ Complete CLI for professional setting  LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members  Supports LLDP to allow switch to advise its identification and capability on the LAN  Cisco Discovery Protocol for topology mapping 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*, QoS by VLAN*  Present	DNS SNTP Firmware Update  Configuration upload and	Provide DHCP client/ DHCP Server/ DHCP option 82 relay /DHCP option82 server*; Mac based DHCP*; Port based DHCP* Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech <sup>TM</sup> InstaConfig* for multiple upgrade Supports text configuration file for system quick installation N-key** for mass firmware auto-backup, editable



\*Future Release

\*\* Optional Release

## **ORDERING INFOMATION**

8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Managed Industrial Switch, dual 9.5V~57VDC input, -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°C

## **OPTIONAL ACCESSORIES**

#### 48-54VDC DIN Rail Power for 802.3at Applications

AD1240-48S 48~57VDC, 4.3A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

■ AD1360-48S 48~57VDC, 6.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

AD1500-48S 48~57VDC, 9A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

#### Lantech Communications Global Inc.

www.lantechcom.tw info@lantechcom.tw

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