

IPGS-3408GSFP

8 10/100/1000T + 4 1000M SFP L2+ 8 PoE at/af Industrial Managed Switch

w/ Enhanced G.8032 Ring & PTP

- Support IEEE802.3at/af up to 30W per port
- PoE management incl. Detection and Scheduling
- Enhanced G.8032 ring protection < 20ms with auto mode, enhanced mode, train mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI /RSTP
- Miss-wiring avoidance & Repowered auto ring restore (node failure protection)
- User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82 for Port&VLAN based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, ACL, IPv6, SMS
- Environmental Monitoring for temp., voltage & current**

















OVERVIEW

Lantech IPGS-3408GSFP is a high performance L2+ (Gigabit uplink) switch with 8 10/100/1000T + 4 1000M SFP 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 including dynamic coupling ring, enhanced mode for easy configuration and aggregation ring*, comprehensive QoS, QoS by VLAN, advanced security including ACL L2/L3, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ* (double tag VLAN) which are important features required in train and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and show on L2 map topology.

Lantech IPGS-3408GSFP features hardware-based PTP IEEE1588 v2 two-step function which can allow 8 10/100/1000T uplinks to synchronize the network with precise accuracy (under 1µs). It has RTC (Real Time Clock) inside that can keep track of current time.

Compliant with 802.3af/at standard, the Lantech IPGS-3408GSFP is able to feed each PoE port up to 30 Watts@54 VDC providing the connected PD devices. Lantech IPGS-3408GSFP supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD is hang up 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.

The IPGS-3408GSFP 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-3408GSFP is able to alert with the LED indicator and send out an email, traps 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.

DHCP option 82 and relay agent function (port&vlan based DHCP distribution) can offer the same IP address on port base or vlan base where there is need to replace the new device connecting to Lantech switches to avoid any network disruption. The built-in DHCP Option 82 server offers the convenience of policy setting on the switch. Mac based DHCP server function assigns an IP address according to its MAC address to include dumb switches in DHCP network.

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-3408GSFP much easier to get



hands-on. The switch also equips the RTC (real time clock) which can keep track of time always. The IPGS-3408GSFP supports DMI interface that can correspond with DDM SFPs (Digital diagnostic monitor) to display the five parameters in Lantech's UI, including optical output power, input power, temperature, laser bias current and transceiver supply voltage***. 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.

Lantech IPGS-3408GSFP 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 16 MSTI. The ITU G.8032 Ring and RSTP can be co-existed in the same switch with different ports for the most flexible protection.

The configuration file of Lantech IPGS-3408GSFP can be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. The 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.

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.

The IPGS-3408GSFP DIDO function can support additional open/close physical contact for designate applications besides

Port / Power events, for example, DIDO function can trigger alarm if the switch was moved or stolen. In case of events, the IPGS-3408GSFP will immediately send an email & SMS text message to pre-defined addresses as well as SNMP Traps out. It provides 2DI and 2DO while 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.

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

The Lantech IPGS-3408GSFP is designed with dual power supply at 48VDC. The 12V model is built with Booster technology that can accept input voltage from 12V ~ 48V and deliver PoE power at 48V to feed the PD. Featured with relay contact alarm function, the IPGS-3408GSFP is able to connect with alarm system in case of power failure. The IPGS-3408GSFP also provides ±4000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Lantech IPGS-3408GSFP features 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.

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 + 4 1000M SFP w/8 PoE 802.3af/at
 Injectors (Total 12 Ports Switch)
- Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W@54V; 15W @ 48V per port for active operation
- PoE voltage boost from 12V to 48V (12V model)
- PoE management including PoE detection and scheduling for PD (power devices)
- IEEE 1588 PTP v2 two-step (under 1μs)
- Back-plane (Switching Fabric): 24Gbps
- 16K MAC address table
- DDM to support SFP diagnostic function***
 - Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance
- 9KB 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

- Support various ring/chain topologies, including dynamic coupling ring& aggregation ring*
- Enhanced G.8032 ring configuration with ease
- Auto ring configuration(auto mode) for single ring
- Co-exist with RSTP on different ports
- Aggregation ring for ring redundancy and bandwidth combination*
- Provides EFT protection ±4000 VDC for power line.
- Supports ±6000 VDC Ethernet ESD protection
- LACP load balancing to distribute the load*
- 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
- 4K 802.1Q VLAN, Port based VLAN, GVRP**, QinQ*
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ Lantech[™]
 InstaConfig**/ Lantech[™] InstaView**

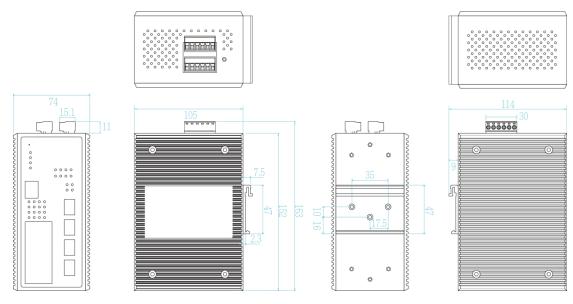


- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server for Port&Vlan based DHCP distribution
- Mac based DHCP server to assign IP address that includes dumb switches in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance
 - LED indicator
 - 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; LantechTM InstaConfig** for multiple upgrade
- System Event Log, SMTP Email alert, SMS mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH/ACL 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
- 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 route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring and for reversed multicast video flow
- Multicast VLAN registration* for metro video
- IGMPv1,v2,v3 with Query mode for multi media
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch CPU is found dead
- Optional environmental monitoring for system input voltage, current, ambient temperature
- Supports DIDO (Digital Input/Digital Output)
- IP30 metal housing with DIN rail and Wall-mount** design

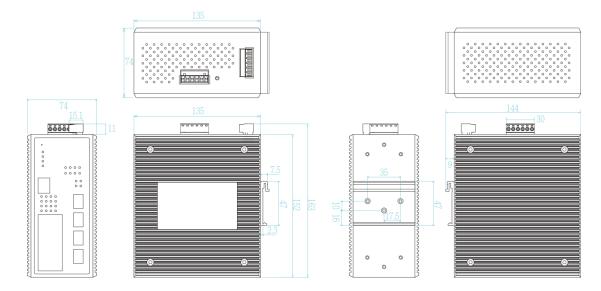
DIMENSIONS (unit=mm)

Standard model





12V model



SPECIFICATION

Hardware S	pecification		Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km,
Standards	IEEE802.3 10Base-T Ethernet		1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125
	IEEE802.3u 100Base-TX		μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km,
	IEEE802.3ab 1000Base-T Ethernet	Destand	1550 nm (9/125 μm)
	IEEE802.3z Gigabit fiber	Protocol	CSMA/CD
	IEEE802.3x Flow Control and Back Pressure	LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail
	IEEE802.3ad Port trunk with LACP		(Red) Ethernet port: Link/Activity (Green), Speed
	IEEE802.1d Spanning Tree		(Green); Mini-GBIC: Link/Activity (Green)
	IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree	DI/DO	2 Digital Input (DI) :
	IEEE802.3ad Link Aggregation Control Protocol	01/00	Level 0: -30~2V / Level 1: 10~30V
	(LACP)		Max. input current:8mA
	IEEE802.1AB Link Layer Discovery Protocol		2 Digital Output(DO): Open collector to 40 VDC,
	(LLDP)		200mA
	IEEE802.1X User Authentication (Radius)	Operating Humidity	5% ~ 95% (Non-condensing)
	IEEE802.1p Class of Service	Operating	-20°C~60°C / -4°F~140°F (Standard model)
	IEEE802.1Q VLAN Tag	Temperature	-40°C~75°C / -40°F~167°F(-E model)
	IEEE1588 Precision Time Protocol v2	Storage	-40°C~85°C / -40°F~185°F
	IEEE802.3at/af Power over Ethernet	Temperature	
Switch Architecture	Back-plane (Switching Fabric): 24Gbps	Power Supply	Dual 45~57VDC (Standard model)
Transfer Rate	14,880pps for Ethernet port		Dual 9.5~57VDC (12V model)
	148,800pps for Fast Ethernet port	PoE Budget	240W for 45~56V input
	1,488,000pps for Gigabit Ethernet / Gigabit Fiber	· ·	(55V input is recommended for 802.3at 30W
0511	port		applications)
CPU	Marvell 800Mhz		120W for 24V input
RAM	256M Byte		80W for 12V input
Flash	128M Byte 16K MAC address table	PoE pin	RJ-45 port # 1~#8 support IEEE 802.3at/af
Mac Address		assignment	End-point, Alternative A mode. Per port provides
Jumbo frame Connectors	9KB on all ports 10/100/1000T: 8 x ports RJ-45 with Auto	· ·	30W at 54~56VDC/15W at 48V~56VDC.
Connectors	MDI/MDI-X function		Positive (VCC+): RJ-45 pin 1,2.
	Mini-GBIC: 4 x 1000 SFP socket with DDM		
	RS-232 connector: RJ-45 type		Negative (VCC-): RJ-45 pin 3,6.
	Power & P-Fail connector: 1 x 6-pole terminal	Power	10W
	block	Consumption	
	DIDO: 1 x 6-pole terminal block	Case Dimension	Metal case. IP-30,
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable		74 (W) x 105 (D) x 152 (H) mm (Standard model)
	EIA/TIA-568 100-ohm (100m)		74 (W) x 135 (D) x 152 (H) mm (12V model)
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	Weight	900 g
	EIA/TIA-568 100-ohm (100m)	Installation	DIN Rail and Wall Mount** Design
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	EMI & EMS	FCC Class A,
	EIA/TIA-568 100-ohm (100m)		CE EN55022 Class A, CE EN55024, CE
Optical Cable	1.25Gbps:		EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4,
	Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2		CE EN61000-4-5, CE EN61000-4-6, CE
	km, 1310 nm (50/125 μm)		N61000-4-8, EN61000-4-11
	Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27
	(9/125 µm); 0 to 50 km/ 60 km/ 80km/ 120 km,		(Shock),
	1550 nm (9/125 µm) WDM 1.25Gbps:	MIDE	IEC60068-2-64 (Vibration)
	11Dill 1.2000ps.	MTBF	782,237 hours



Software Sp Management SNMP MIB		
SNMP MIB	SNMP v1 v2c, v3/ Web/Telnet/CLI	
	RFC 1215 Traps MIB,	
	RFC 1213 MIBII	
	RFC 1158 MIBII	
	RFC 1157 SNMP MIB,	
	RFC 1493 Bridge MIB,	
	RFC 1573 IF MIB	
	RFC 2674 VLAN MIB,	IG
	Partial RFC 1643 EtherLike,	
	Partial RFC 1757 RMON,	
	RFC 2674 Q-Bridge MIB; Bridge MIB,	M\
	RFC 2790 Host Resource MIB	
	LLDP MIB*	
	RSTP MIB*	
	Private MIB	Ba
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in	
	less than 20ms for self-heal recovery (basic mode)	
	Support various ring/chain topologies	
	Includes dynamic coupling ring & aggregation ring*	
	Enhanced G.8032 ring configuration with ease Co-exist with RSTP on different ports	
PoE Management	PoE Detection to check if PD is hang up	
- oz wanagement	then restart the PD	
	PoE Scheduling to On/OFF PD upon	R1
	routine time table	
Per Port PoE	On/ Off, voltage, current, watts, temperature	Flo
Status		
PTP v2	Support hardware-based IEEE1588 PTPv2 in 1µs,	Sy
	End to End (2-step) and Peer to Peer (2-step)	-
	modes in Transparent Clock, with 8 10/100/1000T	SI
User friendly UI	Auto topology drawing	
	Topology demo	Re
	 Auto configuration for G.8032(auto mode) for single ring 	1/6
	DDM threshold monitoring with dB	
	values***	Pr
	■ Complete CLI for professional setting	
Port Trunk with	LACP Port Trunk: 8 Trunk groups/Maximum 8	
LACP	trunk members	12
	Aggregation ring for ring redundancy and	
	bandwidth combination*	
LLDP	Supports LLDP to allow switch to advise its	
	identification and capability on the LAN	
	Ciaca Diagonama Destacal for tanalama manning	
CDP	Cisco Discovery Protocol for topology mapping	
Environmental	System status for input voltage, current and	
	System status for input voltage, current and ambient temperature to be shown in GUI and sent	
Environmental Monitoring**	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models)	
Environmental	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) Port Based VLAN	DI
Environmental Monitoring**	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID	Dł
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Environmental Monitoring** VLAN IPv6/4	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) Port Based VLAN IEEE 802.10 Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP** (256 Groups)**, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1s	M Se
Environmental Monitoring** VLAN IPv6/4 Spanning Tree	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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*** (256 Groups)***, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree The quality of service determined by port, Tag and IPv4 Type of services	M Se DI
Environmental Monitoring** VLAN IPv6/4 Spanning Tree Quality of Service	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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** (256 Groups)**, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree The quality of service determined by port, Tag and	M/Se
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Environmental Monitoring** VLAN IPv6/4 Spanning Tree Quality of Service Class of Service QoS by VLAN	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) Port Based VLAN IEEE 802.10 Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP** (256 Groups)**, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Tagged QoS by VLAN for all devices in the network	Mi Se DI St
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Environmental Monitoring** VLAN IPv6/4 Spanning Tree Quality of Service Class of Service QoS by VLAN IP Security	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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** (256 Groups)**, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Tagged QoS by VLAN for all devices in the network Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.	Mi Se DI St
Environmental Monitoring** VLAN IPv6/4 Spanning Tree Quality of Service Class of Service QoS by VLAN IP Security Login Security	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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** (256 Groups)**, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Tagged QoS by VLAN for all devices in the network Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Supports IEEE802.1X Authentication/RADIUS	Ma Se Dr Sh Fin
Environmental Monitoring** VLAN IPv6/4 Spanning Tree Quality of Service Class of Service QoS by VLAN IP Security Login Security	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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** (256 Groups)**, QinQ Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Tagged QoS by VLAN for all devices in the network Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both	Miss See Driver Sh

	unauthorized intruder.		
	802.1X access control for port based and MAC		
	based authentication/MAC-Port binding		
	·		
	Management access control with priority		
	256 Policy based Access Control List		
	SSL/ SSH for Management		
	HTTPS for secure access to the web interface		
	TACACS+ for Authentication		
IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP		
	static route; 256 multicast groups; IGMP router		
	port ; IGMP query; GMRP**		
MVR			
IVIVIX	Static multicast forwarding forward reversed IGMP		
	flow (MVR) with multicast packets binding with		
	ports for IP surveillance application		
Bandwidth Control	Support ingress packet filter and egress packet		
	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		
570	filter and the egress packet limit.		
RTC	Built-in Real Time Clock to keep track of time		
	always		
Flow Control	Supports Flow Control for Full-duplex and Back		
Custom Lon	Pressure for Half-duplex		
System Log	Supports System log record and remote system		
SMTP/Text SMS	log server Supports SMTP Server and 8 e-mail accounts for		
OWITT / TEXT OWIO	receiving event alert; can send SMS text alert via		
	mobile		
Relav Alarm	Provides one relay output for port breakdown.		
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm.		
Relay Alarm			
Relay Alarm Protection	power fail and alarm.		
	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V		
Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection		
	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including:		
Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection		
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Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure		
Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down		
Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down DI/DO open/close		
Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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)		
Protection	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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) PoE ping failure		
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Protection SNMP Trap	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution		
Protection SNMP Trap DHCP Mac based DHCP	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb		
Protection SNMP Trap DHCP Mac based DHCP Server	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network		
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Protection SNMP Trap DHCP Mac based DHCP Server DNS	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down Dl/DO open/close Typology change(ITU ring) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network Provide DNS client feature and support Primary and Secondary DNS server.		
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Protection SNMP Trap DHCP Mac based DHCP Server DNS SNTP	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network 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		
Protection SNMP Trap DHCP Mac based DHCP Server DNS SNTP Firmware Update	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down Dl/DO open/close Typology change(ITU ring) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network 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 IM InstaConfig** for multiple upgrade		
Protection SNMP Trap DHCP Mac based DHCP Server DNS SNTP Firmware Update Configuration	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down Dl/DO open/close Typology change(ITU ring) PoE ping failure Power failure Power failure Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network 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 Supports text configuration file for system quick		
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Protection SNMP Trap DHCP Mac based DHCP Server DNS SNTP Firmware Update Configuration upload and download	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection 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) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network 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; Support factory reset button to restore all settings back to factory default		
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Protection SNMP Trap DHCP Mac based DHCP Server DNS SNTP Firmware Update Configuration upload and download	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Repowered auto ring restore Loop protection Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down Dl/DO open/close Typology change(ITU ring) PoE ping failure Power failure Environmental abnormal** Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based&VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network 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; Support factory reset button to restore all settings back to factory default Each port allows an alphabetic string of 128-byte		

Optional *Optional DDM SFP required



ORDERING INFOMATION

PGS-3408GSFPP/N: 8350-611
10/100/1000T PoE at/of up to 30W + 4 1000M SER L2+ Managed Industrial PoE Switch: 20°C to 60°C; D

■ IPGS-3408GSFP-E......P/N: 8350-612

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch; -40°C to 75°C; Dual 48VDC

■ IPGS-3408GSFP-M......P/N: 8350-613

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch w/Environmental monitoring; -20°C to 60°C; Dual 48VDC

■ IPGS-3408GSFP-M-E......P/N: 8350-614

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch w/Environmental monitoring; -40°C to 75° C; Dual 48VDC

■ IPGS-3408GSFP-12V......P/N: 8350-617

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch; -20°C to 60°C; Dual 9.5~57VDC

■ IPGS-3408GSFP-12V-E......P/N: 8350-618

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch; -40°C to 75°C; Dual 9.5~57VDC

■ IPGS-3408GSFP-12V-M......P/N: 8350-6171

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch w/Environmental monitoring; -20°C to 60°C; Dual 9.5~57VDC

■ IPGS-3408GSFP-12V-M-E......P/N: 8350-6181

8 10/100/1000T PoE at/af up to 30W + 4 1000M SFP L2+ Managed Industrial PoE Switch w/Environmental monitoring; -40°C to 75° C; Dual 9.5~57VDC

OPTIONAL ACCESSORIES

55VDC DIN Rail Power for 802.3at Applications

■ AD1240-48S-5 48~56VDC, 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-5 48~56VDC, 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-5 48~56VDC, 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)

Mini GBIC (SFP)

■ 8330-162X	MINI GBIC 1000SX (LC/0.5km) Transceiver	8330-169	MINI GBIC 1000XD (LC/60km) Transceiver
8330-163X	MINI GBIC 1000SX2 (LC/2km) Transceiver	8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver
■ 8330-165X	MINI GBIC 1000LX (LC/10km) Transceiver	8330-170	MINI GBIC 1000EZX (120km) Transceiver
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver	8330-168	MINI GBIC 10/100/1000T (100m) Transceiver
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver		

Wall Mount Bracket

MBEAR001 Wall mount bracket for 96.3(W) x 114.3 (D) x 152 (H) mm Industrial switches

Lantech Communications Global Inc.

www.lantechcom.tw

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