### Lantech<sup>™</sup> Pioneering Industrial and IP Networks

#### IPGS-3208GSFP 8 10/100/1000T + 2 1000M SFP L2+ w/8 PoE at/af Industrial Managed Switch w/ Enhanced G.8032 Ring; Optional 12V input model SFP cage support 1G Mbps SFP antech Support IEEE802.3at/af up to 30W per port PoE management incl. Detection and Scheduling 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 and DDM threshold monitoring with DB values\*\*\*; 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 Optional Environmental Monitoring\*\* for temp., voltage ,current and PoE load Dual 12V/48V input voltage selection; Max PoE budget 120W @24V; 240W @48V USB port for backup, restore the configuration file Wide range operation temperature (-E model):-40~75C/-40~167F 12V PoF FC (E ITU G.803230W 48V

### **OVERVIEW**

Lantech IPGS-3208GSFP is a high performance L2+ all Gigabit switch with 8 10/100/1000T + 2x 1G multi-Giga rate 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 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.

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

Lantech IPGS-3208GSFP supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD hangs 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.

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

The IPGS-3208GSFP 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-3208GSFP is able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. This feature prevents the broken ring and keep ring alive without any re-configuration needed. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

#### User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-3208GSFP 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 IPGS-3208GSFP 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 IPGS-3208GSFP 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. IPGS-3208GSFP also supports dual image firmware function.

## USB port for back up, restore configuration and upgrade firmware

The built-in USB port can upload/download the firmware through USB dongle for switch replacement.

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

In case of event, the IPGS-3208GSFP is 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 IPGS-3208GSFP 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, trap alerting to predefined users.

## Optional environmental monitoring\*\* for switch inside information (-M model)

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

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

Lantech IPGS-3208GSFP-12V is designed with dual input power at 9.5V~56VDC while IPGS-3208GSFP-48V allows 44~56VDC input. The PoE budget for 12V input is 80W and 24V input is 120W.

# Industrial hardened design for extended temperature operation

Lantech IPGS-3208GSFP provides ±4000V EFT/SURGE and ±8000V contact 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 + 2 1G SFP w/8 PoE 802.3af/at
Injectors (Total 10 Ports Switch)
Support 10K bytes jumbo frames
Embedded 8 PoE Injectors IEEE802.3af/at function
to feed power up to 30W per port for active
operation
Dual 12V input (9.5V~56VDC) for PoE budget 80W/

- Dual 12V input (9.5V~56VDC) for PoE budget 80W/ 24V input for PoE budget 120W
- Dual 48V input (44V~56VDC to offer 240W PoE budget
- PoE management including PoE detection and scheduling for PD (power devices)
- Back-plane (Switching Fabric): 20Gbps
- 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
- 10KB Jumbo frame
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms for 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 ±2000 VDC for power line Supports ±6000 VDC ESD contact protection 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**

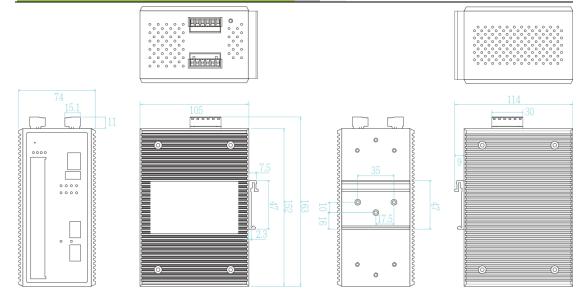


- Ingress packet filter
- Broadcast/multicast packet filter control
- Relay alarm output system events
  - Miss-wiring avoidance
    - LED indicator
- Node failure protection
  - Ensure the switches in a ring to survive after
     power breakout is back
  - The status can be shown in NMS when each switch is back
- System Event Log, SMTP Email alert and SNMP Trap for alarm support; 32 RMON counters
   Security
- 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

- IGMP router port to assign query in ring 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
- Configuration backup and restoration
  - Supports editable configuration file for system guick installation
  - USB port for upload / download configuration by USB dongle
  - TFTP/ HTTP firmware upgrade
- Watchdog design to auto reboot switch CPU is found dead
- IP30 metal housing with DIN rail and Wall-mount\*\* design
- Supports ±4000 VDC (Contact) and ±8000 VDC (Air) Ethernet ESD protection

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



### SPECIFICATION

Hardware Specification			IEEE802.1AB Link Layer Discovery Protocol (LLDP)
Standards	IEEE802.3 10Base-T Ethernet		IEEE802.1X User Authentication (Radius)
	IEEE802.3u 100Base-TX		IEEE802.1p Class of Service
	IEEE802.3ab 1000Base-T Ethernet		IEEE802.1Q VLAN Tag
	IEEE802.3z Gigabit fiber		IEEE802.3at/af Power over Ethernet
	IEEE802.3x Flow Control and Back Pressure	Switch Architecture	Back-plane (Switching Fabric): 20Gbps
	IEEE802.3ad Port trunk with LACP	Transfer Rate	14,880pps for Ethernet port
	IEEE802.1d Spanning Tree		148,800pps for Fast Ethernet port
	IEEE802.1w Rapid Spanning Tree		1,488,000pps for Gigabit Fiber / Gigabit Ethernet port
	IEEE802.1s Multiple Spanning Tree	CPU	1600 MHz
	IEEE802.3ad Link Aggregation Control Protocol	Flash	256M Byte
	(LACP)	RAM	512M Byte

Datasheet Version 5.0 www.lantechcom.tw | info@lantechcom.tw

### Industrial PoE Managed Ethernet Switches



Mac Address	16K MAC address table	ring	less than 20ms for self-heal recovery (single ring
Jumbo frame	10KB		enhanced mode)
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X		Support various ring/chain topologies
	function SFP port: 2 x 1G SFT cage by software with DDMI		Includes basic single ring and enhanced ring
	supported		Enhanced G.8032 ring configuration with ease
	RS-232 connector: RJ-45 type; USB x 1		Cover multicast & data packets protection
	Power & Relay connector: 1 x 6-pole terminal block	PoE Management	1. PoE Detection to check if PD is hang up then restart the PD
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable		2. PoE Scheduling to On/OFF PD upon routine
	EIA/TIA-568 100-ohm (100m)		time table
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	Per Port PoE	On/ Off, voltage, current, watts, temperature
	EIA/TIA-568 100-ohm (100m)	Status	
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	User friendly UI	<ul> <li>Auto topology drawing</li> </ul>
Optical Cable	1Gbps:		<ul> <li>Topology demo</li> <li>DDM threshold monitoring with dB values***</li> </ul>
	Multi mode: 0 to 550 m, 850 nm (50/125 µm); 0 to 2		<ul> <li>DDM threshold monitoring with dB values***</li> <li>Complete CLI for professional setting</li> </ul>
	km, 1310 nm (50/125 μm)	Port Trunk with	LACP Port Trunk: 8 Trunk groups
	Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm	LACP	
	(9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm)	LLDP	Supports LLDP to allow switch to advise its
	WDM 1Gbps:		identification and capability on the LAN
	Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310	CDP	Cisco Discovery Protocol for topology mapping
	nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to	VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up
	10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125		to 4K, VLAN ID can be assigned from 1 to 4096.)
	μm)		GVRP
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT	IPv6/4	Present
	(Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Amber);	RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s
	PoE : Link/Act (Green); Mini-GBIC: Link/Activity		Multiple Spanning Tree 8 MSTI
	(Green)	Quality of Service	The quality of service determined by port, Tag and
Operating Humidity	5% ~ 95% (Non-condensing)		IPv4 Type of service, IPv4 Differentiated Services
Operating	-20°C~60°C / -4°F~140°F (Standard model)		Code Points - DSCP
Temperature	-40°C~75°C / -40°F~167°F(-E model)	Class of Service	Support IEEE802.1p class of service, per port
Storage	-40°C~85°C / -40°F~185°F	Remote Admin	provides 8 priority queues Supports 10 IP addresses that have permission to
Temperature	44 ECV/DC(49)/ model/2 0 EV/ ECV/DC(42)/ model/2		access the switch management and to prevent
Power Supply PoE Budget	44~56VDC(48V model); 9.5V~56VDC(12V model) 240W for 44~56V input(48V model)		unauthorized intruder.
FUL Duugei			
	• • •	Login Security	Supports IEEE802.1X Authentication/RADIUS
	(54V input is recommended for PTZ or heater applications)	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
	(54V input is recommended for PTZ or heater		Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to
PoE pin	(54V input is recommended for PTZ or heater applications)	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent
PoE pin assignment	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 support IEEE 802.3at/af End- point. Per port provides up to 30W	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to
	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 support IEEE 802.3at/af End- point. Per port provides up to 30W Positive (VCC+): RJ-45 pin 1,2.	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
assignment	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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.	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management
assignment Power	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 support IEEE 802.3at/af End- point. Per port provides up to 30W Positive (VCC+): RJ-45 pin 1,2.	Port Mirror Network Security	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface
assignment	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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.	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast
assignment Power Consumption	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W	Port Mirror Network Security	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP
assignment Power Consumption Case Dimension	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm	Port Mirror Network Security	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast
assignment Power Consumption Case Dimension Weight	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A	Port Mirror Network Security IGMP Static MAC-Port	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP
Assignment Power Consumption Case Dimension Weight Installation	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55024: CE EN55032 Class A CE EN55024: CE EN61000-4-2 (ESD) Level 3	Port Mirror Network Security IGMP Static MAC-Port	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter.
Assignment Power Consumption Case Dimension Weight Installation	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, CE EN55032 Class A CE EN55014: CE EN561000-4-2 (ESD) Level 3 CE EN51000-4-3 (RS) Level 3	Port Mirror Network Security IGMP Static MAC-Port bridge	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are
Assignment Power Consumption Case Dimension Weight Installation	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, CE EN55032 Class A CE EN55012, CE EN56032 Class A CE EN61000-4-3 (RS) Level 3 CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 ED3 (Surge) Level 3	Port Mirror Network Security IGMP Static MAC-Port bridge	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet,
Assignment Power Consumption Case Dimension Weight Installation	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount* Design FCC Part 15 Class A CE EN55011, 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 EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 (SUrge) Level 3 CE EN61000-4-6 (CS) Level 3	Port Mirror Network Security IGMP Static MAC-Port bridge	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast packet, Broadcast packet only
assignment Power Consumption Case Dimension Weight Installation EMI & EMS	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, 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 EN61000-4-6 (CS) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3	Port Mirror Network Security IGMP Static MAC-Port bridge	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet,
Assignment Power Consumption Case Dimension Weight Installation	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount* Design FCC Part 15 Class A CE EN55011, 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 EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 (SUrge) Level 3 CE EN61000-4-6 (CS) Level 3	Port Mirror Network Security IGMP Static MAC-Port bridge	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application 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.
assignment Power Consumption Case Dimension Weight Installation EMI & EMS	<ul> <li>(54V input is recommended for PTZ or heater applications)</li> <li>80W at 12V input; 120W at 24V input(12V model)</li> <li>RJ-45 port # 1~ # 8 support IEEE 802.3at/af Endpoint. Per port provides up to 30W</li> <li>Positive (VCC+): RJ-45 pin 1,2.</li> <li>Negative (VCC-): RJ-45 pin 3,6.</li> <li>10W</li> <li>IP-30, 74 (W) x 114 (D) x 152 (H) mm</li> <li>900g</li> <li>DIN Rail and Wall Mount** Design</li> <li>FCC Part 15 Class A</li> <li>CE EN55011, CE EN55032 Class A</li> <li>CE EN55024: CE EN61000-4-2 (ESD) Level 3</li> <li>CE EN61000-4-3 (RS) Level 3</li> <li>CE EN61000-4-4 (EFT) Level 3</li> <li>CE EN61000-4-6 (CS) Level 3</li> <li>CE EN61000-4-8 (Magnetic field) Level 3</li> <li>IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),</li> </ul>	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are 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.
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, CE EN55032 Class A CE EN55014: CE EN51000-4-2 (ESD) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-3 (ET) Level 3 CE EN61000-4-4 (ET) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)	Port Mirror Network Security IGMP Static MAC-Port bridge	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter.
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety	<ul> <li>(54V input is recommended for PTZ or heater applications)</li> <li>80W at 12V input; 120W at 24V input(12V model)</li> <li>RJ-45 port # 1~ # 8 support IEEE 802.3at/af Endpoint. Per port provides up to 30W</li> <li>Positive (VCC+): RJ-45 pin 1,2.</li> <li>Negative (VCC-): RJ-45 pin 3,6.</li> <li>10W</li> <li>IP-30, 74 (W) x 114 (D) x 152 (H) mm</li> <li>900g</li> <li>DIN Rail and Wall Mount** Design</li> <li>FCC Part 15 Class A</li> <li>CE EN55011, CE EN55032 Class A</li> <li>CE EN55024: CE EN61000-4-2 (ESD) Level 3</li> <li>CE EN61000-4-3 (RS) Level 3</li> <li>CE EN61000-4-4 (EFT) Level 3</li> <li>CE EN61000-4-8 (Magnetic field) Level 3</li> <li>IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)</li> <li>EN62368 (LVD)</li> </ul>	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Flow Control	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55014, CE EN55032 Class A CE EN55024: CE EN61000-4-2 (ESD) Level 3 CE EN61000-4-3 ED3 (Surge) Level 3 CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-4 (CS) Level 3 CE EN61000-4-4 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380)	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Stability Testing MTBF Warranty	<ul> <li>(54V input is recommended for PTZ or heater applications)</li> <li>80W at 12V input; 120W at 24V input(12V model)</li> <li>RJ-45 port # 1~ # 8 support IEEE 802.3at/af Endpoint. Per port provides up to 30W</li> <li>Positive (VCC+): RJ-45 pin 1,2.</li> <li>Negative (VCC-): RJ-45 pin 3,6.</li> <li>10W</li> <li>IP-30, 74 (W) x 114 (D) x 152 (H) mm</li> <li>900g</li> <li>DIN Rail and Wall Mount* Design</li> <li>FCC Part 15 Class A</li> <li>CE EN55011, CE EN55032 Class A</li> <li>CE EN55024: CE EN61000-4-2 (ESD) Level 3</li> <li>CE EN61000-4-3 (RS) Level 3</li> <li>CE EN61000-4-4 (EFT) Level 3</li> <li>CE EN61000-4-6 (CS) Level 3</li> <li>CE EN61000-4-8 (Magnetic field) Level 3</li> <li>IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-32 (Free fall), Standards: IEC 62380)</li> <li>5 years</li> </ul>	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Flow Control	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, 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 EN61000-4-6 (CS) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380) 5 years <b>eCification</b>	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Flow Control System Log	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports System log record and remote system log server
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp Management	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55024: 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 EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380) 5 years ecification SNMP v1 v2c, v3/ Web/Telnet/CLI	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Flow Control System Log	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount* Design FCC Part 15 Class A CE EN55024: CE EN61000-4-2 (ESD) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-4 (ETT) Level 3 CE EN61000-4-8 (S) (Surge) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-3 (Fres) (standards: IEC 62380) 5 years <b>ecification</b> SNMP v1 v2c, v3/ Web/TeInet/CLI RFC 1213 MIBII	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Bandwidth Control Flow Control System Log SMTP	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are 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. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power fail and alarm.
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp Management	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55024: 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 EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380) 5 years ecification SNMP v1 v2c, v3/ Web/Telnet/CLI	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Filow Control System Log SMTP Relay Alarm	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast 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. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp Management	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount* Design FCC Part 15 Class A CE EN55011, 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 EN61000-4-4 (EFT) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 663,567 (Hrs) (standards: IEC 62380) 5 years <b>ecification</b> SNMP v1 v2c, v3/ Web/Teinet/CLI RFC 1213 MIBII RFC 1158 MIBII	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Bandwidth Control Flow Control System Log SMTP	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp Management	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, 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 EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380) 5 years <b>ecification</b> SNMP v1 v2c, v3/ Web/Telnet/CL1 RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB,	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Filow Control System Log SMTP Relay Alarm	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance
assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp Management	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, CE EN55032 Class A CE EN55011, 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 EN61000-4-4 (EFT) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (CS) Level 3 CE EN61000-4-8 (Lagnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380) 5 years <b>ecification</b> SNMP v1 v2c, v3/ Web/TeInet/CLI RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1573 IF MIB Partial RFC 1757 RMON, Bridge MIB,	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Filow Control System Log SMTP Relay Alarm	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are 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. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Node failure protection Loop protection Up to 10 trap stations; trap types including:
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assignment Power Consumption Case Dimension Weight Installation EMI & EMS Stability Testing Safety MTBF Warranty Software Sp Management	(54V input is recommended for PTZ or heater applications) 80W at 12V input; 120W at 24V input(12V model) RJ-45 port # 1~ # 8 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. 10W IP-30, 74 (W) x 114 (D) x 152 (H) mm 900g DIN Rail and Wall Mount** Design FCC Part 15 Class A CE EN55011, CE EN55032 Class A CE EN55011, 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 EN61000-4-4 (EFT) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (CS) Level 3 CE EN61000-4-8 (Lagnetic field) Level 3 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) EN62368 (LVD) 12V: 661,155 (Hrs) 48V: 683,567 (Hrs) (standards: IEC 62380) 5 years <b>ecification</b> SNMP v1 v2c, v3/ Web/TeInet/CLI RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1573 IF MIB Partial RFC 1757 RMON, Bridge MIB,	Port Mirror Network Security IGMP Static MAC-Port bridge Bandwidth Control Bandwidth Control Flow Control System Log SMTP Relay Alarm Protection	Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control/MAC-Port binding INGRESS ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application Support ingress packet filter. Ingress filter packet type combination rules are 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. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex Supports System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V Miss-wiring avoidance Node failure protection Loop protection Up to 10 trap stations; trap types including:

Datasheet Version 5.0

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### Industrial PoE Managed Ethernet Switches



DHCP DNS SNTP	DI/DO open/close     Topology change (ITU ring)     Power failure     Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82 (Client & Server/Port based DHCP; DHCP Snooping; DHCP option 66 Provide DNS Client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in	Firmware Update Configuration upload and download Dual Image Firmware	sent alerting if any abnormal status (-M models) Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade 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 Support dual image firmware function
Environmental Monitoring**	Internet System status for input voltage, current, consumption and ambient temperature to be shown in GUI and		*Future Release **Optional ***Optional DDM SFP required

### **ORDERING INFORMATION**

- IPGS-3208GSFP-48V......P/N: 8350-9903
   8 10/100/1000T + 2 1Gbps SFP w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44~56VDC input; -20°C to 60°C
- IPGS-3208GSFP-48V-E......P/N: 8350-9904
   8 10/100/1000T + 2 1Gbps SFP w/8 .PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch; dual 44~56VDC input; -40°C to 75°C
- IPGS-3208GSFP-12V......P/N: 8350-9923
   8 10/100/1000T + 2 1Gbps SFP 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-3208GSFP-12V-E......P/N: 8350-9924
   8 10/100/1000T + 2 1Gbps SFP 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-3208GSFP-M-48V......P/N: 8350-9913
   8 10/100/1000T + 2 1Gbps SFP w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch w/Environmental monitoring; dual 44~56VDC input; -20°C to 60°C
- IPGS-3208GSFP-M-48V-E.....P/N: 8350-9914
   8 10/100/1000T + 2 1Gbps SFP w/8 .PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch w/Environmental monitoring; dual 44~56VDC input; -40°C to 75°C
- IPGS-3208GSFP-M-12V......P/N: 8350-9925 8 10/100/1000T + 2 1Gbps SFP w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch w/Environmental monitoring, dual 9.5V~56VDC input; -20°C to 60°C
- IPGS-3208GSFP-M-12V-E......P/N: 8350-9926 8 10/100/1000T + 2 1Gbps SFP w/8 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch w/Environmental monitoring, dual 9.5V~56VDC input, ~40°C to 75°C

### **OPTIONAL ACCESSORIES**

#### **DIN Rail Power**

NDR-480 \$	Series	0 1		DC Input Range; Cooling by free air convection; RoHS2 ;	
NDR-240 Series		Operating Temp20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C) 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp20°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 Temp20°C-70°C (ambient, derating each output at 2.5% per degree from 50°C - 70°C; For 115VAC, please refer to			
NDR-75 Series		derating curve on NDR-120 Series datasheet) 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp20°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)			
Mini GBIC	(SFP)		,		
8330-162X 8330-163X 8330-165X 8340-0591 8330-166 8330-166 8330-167 8330-167 8330-168 8330-188	MINI GB MINI GB MINI GB MINI GB MINI GB MINI GB MINI GB	IC 1000SX (LC/0.5km) Transceiver IC 1000SX2 (LC/2km) Transceiver IC 1000LX (LC/10km) Transceiver IC 1000LHX (LC/40km) Transceiver IC 1000XD (LC/50km) Transceiver IC 1000XD (LC/60km) Transceiver IC 1000ZX (LC/80km) Transceiver IC 1000EXX (120km) Transceiver IC 1000T (100m) Transceiver 000BX-10KM Transceiver (WDM 1310)	8330-189 8330-186 8330-187 8330-180 8330-182 8330-183 8330-183 8330-184 8330-184	LTSFP-1000BX-10KM Transceiver (WDM 1550) LTSFP-1000BX-20KM Transceiver (WDM 1310) LTSFP-1000BX-20KM Transceiver (WDM 1550) LTSFP-1000BX-40KM Transceiver (WDM 1550) LTSFP-1000BX-60KM Transceiver (WDM 1550) LTSFP-1000BX-60KM Transceiver (WDM 1550) LTSFP-1000BX-80KM Transceiver (WDM 1490) LTSFP-1000BX-80KM Transceiver (WDM 1550)	



All SFP ended with D are with Diagnostic function

Lantech Communications Global Inc.

www.lantechcom.tw info@lantechcom.tw

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