

I(P)GS-3208C

**8 10/100/1000T + 2 10/100/1000T Dual Speed SFP Combo L2+
(w/8 PoE at/af) Industrial Managed Ethernet Switch w/ Enhanced
G.8032 Ring ; Optional 12/24V input model**

- Support IEEE802.3at/af up to 30W per port
- PoE management incl. Detection and Scheduling
- Ethernet galvanic isolation
- 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
- PoE model: Dual 9.5V~56VDC input (12V model); 9~36VDC (24V model); 44V~56VDC input (48V model)
- Non-PoE model: dual 9.5V~60VDC input (12V model); 9~36VDC (24V model)
- USB port for backup, restore the configuration file
- Optional Environmental monitoring function to display inside switch info incl. temperature, voltage, current, power consumption
- E-marking certificate for vehicle application (Only 24VDC input system is applicable for E-mark approval)



OVERVIEW

Lantech I(P)GS-3208C is a high performance L2+ all Gigabit switch with 8 10/100/1000T + 2 x 10/100/1000T/Dual Speed 100/1000M SFP combo (w/8 PoE 802.3af/at ports) 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-3208C supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD is hanged then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE port can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Miss-wiring avoidance, Node failure protection, Loop protection

The I(P)GS-3208C also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech I(P)GS-3208C 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. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-3208C much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8 MSTI MSTP

Lantech I(P)GS-3208C features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering multicast packets. It also supports various ring topologies that covers enhanced ring and basic ring by easy setup than others. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 8 MSTI.

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

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. DHCP Snooping is supported. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application.

GVRP supported

It supports the GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP, router port and static multicast forwarding binding by ports for video surveillance application.

Editable configuration text file; Factory reset button; CPU watchdog

The configuration file of Lantech I(P)GS-3208C 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.

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.

E-marking certificate

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

Event log; 2DI / 2DO; Relay alarm

In case of event, the I(P)GS-3208C is able to send 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 traps.

Featured with relay contact alarm function, the I(P)GS-3208C is able to connect with alarm system in case of power failure and port disconnection. In case of such event, it will send out 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 when abnormal.

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

Lantech IPGS-3208C-12V is designed with dual input power at 9.5V~56VDC while IGS-3208C-12V is at 9.5V~60VDC. I(P)GS-3208C-24V model allows with 9~36VDC input and 48V model with 44V~56VDC for PoE model. The PoE budget for 12V input is 80W and for 24V input is 120W, for 48V input is 240W. (For PoE Model)

High reliability and extended working temperature

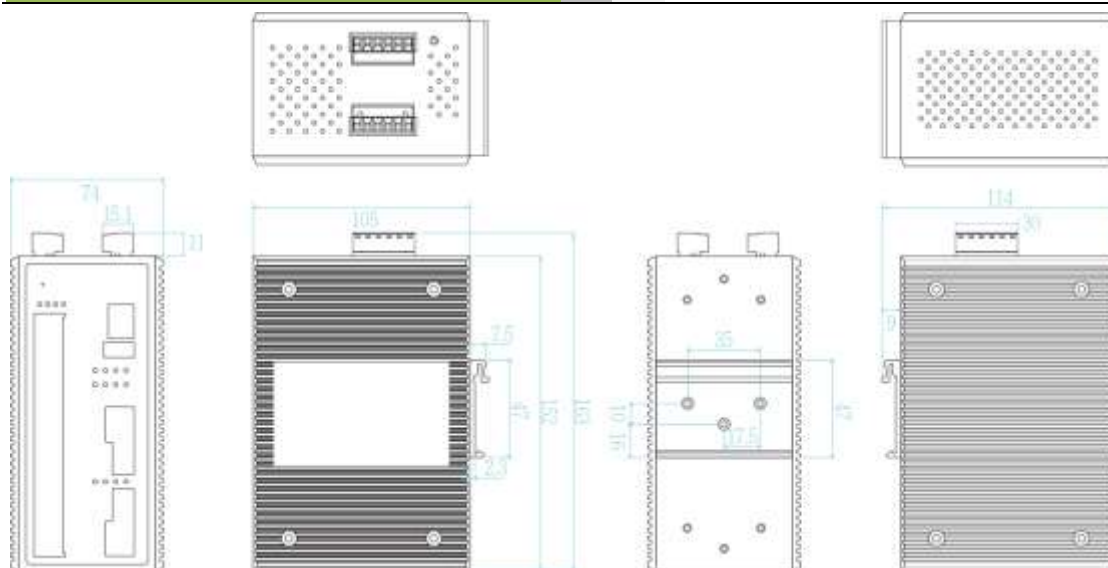
Lantech I(P)GS-3208C provides $\pm 2000V$ EFT/SURGE and $\pm 4000VDC$ (Contact) / $\pm 8000VDC$ (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in 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 $-40^{\circ}C$ to $75^{\circ}C$.

FEATURES & BENEFITS

- 8 10/100/1000T + 2 10/100/1000T/Dual Speed 100/1000M SFP combo (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 9.5V~56VDC power input for 12V model with PoE budget 80W at 12V input, 120W at 24V input, 240W at 48V input (For PoE Model)
- Dual 9.5V~60VDC power input for 12V model and dual 9V~36VDC power input for 24V model without PoE
- PoE management including PoE detection and scheduling for PD (power devices)
- 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 (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 ± 4000 VDC (Contact) and ± 8000 VDC (Air) Ethernet ESD 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
- TFTP/ HTTP firmware upgrade
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
 - USB port to upload/download firmware by USB dongle
- System Event Log and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH v2/INGRESS ACL L2/L3
 - Port Security: MAC address entries/Filter/static MAC-Port binding
 - Remote Admin: IP address security management to prevent unauthorized intruder.
 - Login Security: IEEE802.1X/RADIUS
 - HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multimedia; GMRP
- Factory reset button to restore setting to factory default
- Optional environmental monitoring for system input voltage, current, ambient temperature
- Watchdog design to auto reboot switch CPU is found dead
- E-marking certificate for vehicle application
Only 24VDC input system is applicable for E-mark approval
- IP30 metal housing with DIN rail and Wall-mount** design

DIMENSIONS (unit=mm)



SPECIFICATION

| Hardware Specification | |
|------------------------|--|
| Standards | IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T Ethernet IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.3at/af Power over Ethernet |
| Switch Architecture | Back-plane (Switching Fabric): 20Gbps |
| Transfer Rate | 14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber / Gigabit Ethernet port |
| Mac Address | 16K MAC address table |
| Jumbo frame | 10KB |
| Connectors | 10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function 10/100/1000T/SFP Combo port: 2 x 10/100/1000T/Dual Speed 100/1000M SFP combo RS-232 connector: RJ-45 type; USB x 1 Power & Relay connector: 1 x 6-pole terminal block DI/DO connector: 1 x 6-pole terminal block |
| Network Cable | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) |
| Optical Cable | 1.25Gbps: Multi-mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2 km, 1310 nm (50/125 μm) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm) 125Mbps: |
| | Multi-mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 μm) Single mode: 0 to 30 km, 1310 nm (62.5/125 μm) WDM 1.25Gbps: Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) WDM 125Mbps: Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 μm); 0 to 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) |
| LED | Per unit: Power 1 (Green), Power 2 (Green), Fault (Red), RM(Green) Ethernet port: Link/Activity (Green), Speed (Amber); PoE : Link/Act (Green); Mini-GBIC: Link/Activity (Green) |
| Operating Humidity | 5% ~ 95% (Non-condensing) |
| Operating Temperature | -20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E model) |
| Storage Temperature | -40°C~85°C / -40°F~185°F |
| Power Supply | Non-PoE model: 9.5~60VDC (12V model) 9~36VDC (24V model) PoE model: 9.5~56VDC (12V model) 9~36VDC (24V model) 44~56VDC (48V model) (All model with Ethernet galvanic isolation) |
| PoE Budget | 80W at 12V input; 120W at 24V input(12V model) 100W for 9~36VDC at 24V input (24V model) 240W for 45~56VDC at 48V input (48V model) (50-56VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request. ** |
| PoE pin assignment | 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. |
| Power Consumption | 10W |
| Case Dimension | IP-30, 74 (W) x 114 (D) x 152 (H) mm |
| Weight | 900 g |

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|-------------------------------|--|-----------------------------------|--|
| Installation | DIN Rail and Wall Mount** Design | | unauthorized intruder. |
| EMI & EMS | EN 55011:2016 FCC Part 15 Class A IEC/EN61000-6-2 CE EN55032 Class A CE EN55024: CE EN61000-4-2 (ESD) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 ED3 (Surge) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 | Login Security | Supports IEEE802.1X Authentication/RADIUS |
| Safety | EN62368 (LVD) | Port Mirror | Support 3 mirroring types: "RX, TX and Both packet" |
| Stability Testing | IEC60068-2-31 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) | Network Security | Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Ingress ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface |
| Vehicle certificate | E13 marking (24V Model) | IGMP | Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query; GMRP |
| MTBF | 66,587 (Hrs) Standards: IEC 62380 | Static MAC-Port bridge | Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application |
| Software Specification | | Bandwidth Control | Support ingress packet filter. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all types of packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter. |
| Management | SNMP v1 v2c, v3/ Web/Telnet/CLI | Flow Control | Supports Flow Control for Full-duplex and Back Pressure for Half-duplex |
| SNMP MIB | MIB MIBII SNMP MIB Bridge MIB IF MIB RMON MIB Private MIB | System Log | Supports System log record and remote system log server |
| Enhanced G.8032 ring | Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring enhanced mode) Support basic single ring & enhanced ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection | Relay Alarm | Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V |
| PoE Management | 1. PoE Detection to check if PD is hang up then restart the PD 2. PoE Scheduling to On/OFF PD upon routine time table | Protection | <ul style="list-style-type: none"> Miss-wiring avoidance Node failure protection Loop protection |
| Per Port PoE Status | On/ Off, voltage, current, watts, temperature | SNMP Trap | Up to 10 trap stations; trap types including: <ul style="list-style-type: none"> Device cold start Authorization failure Port link up/link down DI/DO open/close Topology change(ITU ring) Power failure Environmental abnormal |
| User friendly UI | <ul style="list-style-type: none"> Auto topology drawing Topology demo DDM threshold monitoring with dB values*** Complete CLI for professional setting | DHCP | Provide DHCP Client/ DHCP Server/DHCP Option 82 (Relay & Server)/Port based DHCP; DHCP Snooping; DHCP option 66 |
| Port Trunk with LACP | LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members | DNS | Provide DNS Client feature and support Primary and Secondary DNS server. |
| LLDP | Supports LLDP to allow switch to advise its identification and capability on the LAN | SNTP | Supports SNTP to synchronize system clock in Internet |
| CDP | Cisco Discovery Protocol for topology mapping | Environmental Monitoring** | System status for input voltage, current, consumption and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) |
| VLAN | Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP | Firmware Update | Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade |
| IPv6/4 | Present | Configuration upload and download | Supports editable configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB port for upload/download configuration by USB dongle |
| RSTP/MSTP | Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI | | |
| Quality of Service | The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP | | |
| Class of Service | Support IEEE802.1p class of service, per port provides 8 priority queues | | |
| Remote Admin | Supports 10 IP addresses that have permission to access the switch management and to prevent | | |

*Future Release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

- **IPGS-3208C-48V.....P/N: 8350-982**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch; dual 44~56VDC input; -20°C to 60°C
- **IPGS-3208C-48V-E.....P/N: 8350-983**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
- **IPGS-3208C-24V.....P/N: 8350-9824**

- 8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch; dual 9~36VDC input; -20°C to 60°C
- **IPGS-3208C-24V-E.....P/N: 8350-9834**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch; dual 9~36VDC input; -40°C to 75°C
 - **IPGS-3208C-12V.....P/N: 8350-984**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch, dual 9.5V~56VDC input; -20°C to 60°C
 - **IPGS-3208C-12V-E.....P/N: 8350-985**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch, dual 9.5V~56VDC input; -40°C to 75°C
 - **IPGS-3208C-M-48V.....P/N: 8350-9822**
8 10/100/1000T + 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch w/Environmental monitoring; dual 44~56VDC input; -20°C to 60°C
 - **IPGS-3208C-M-48V-E.....P/N: 8350-9823**
8 10/100/1000T + 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch w/Environmental monitoring; dual 44~56VDC input; -40°C to 75°C
 - **IPGS-3208C-M-24V.....P/N: 8350-9825**
8 10/100/1000T + 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch w/Environmental monitoring; dual 9~36VDC input; -20°C to 60°C
 - **IPGS-3208C-M-24V-E.....P/N: 8350-9835**
8 10/100/1000T + 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch w/Environmental monitoring; dual 9~36VDC input; -40°C to 75°C
 - **IPGS-3208C-M-12V.....P/N: 8350-9842**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch w/Environmental monitoring; dual 9.5V~56VDC input; -20°C to 60°C
 - **IPGS-3208C-M-12V-E.....P/N: 8350-9843**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo w/8 PoE Mode A 802.3at/af 30W
L2+ Industrial PoE Managed Ethernet Switch w/Environmental monitoring; dual 9.5V~56VDC input; -40°C to 75°C
 - **IGS-3208C-12V.....P/N: 8351-011**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch,
dual 9.5V~60VDC input w/ isolation, -20°C to 60°C
 - **IGS-3208C-12V-E.....P/N: 8351-012**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch,
dual 9.5V~60VDC input w/ isolation, -40°C to 75°C
 - **IGS-3208C-M-12V.....P/N: 8351-0111**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch
w/Environmental monitoring; dual 9.5~60VDC input w/ isolation, -20°C to 60°C
 - **IGS-3208C-M-12V-E.....P/N: 8351-0112**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch
w/Environmental monitoring; dual 9.5~60VDC input w/ isolation, -40°C to 75°C
 - **IGS-3208C-24V.....P/N: 8351-0113**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch,
dual 9V~36VDC input w/ isolation, -20°C to 60°C
 - **IGS-3208C-24V-E.....P/N: 8351-0114**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch,
dual 9V~36VDC input w/ isolation, -40°C to 75°C
 - **IGS-3208C-M-24V.....P/N: 8351-0115**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch
w/Environmental monitoring; dual 9V~36VDC input w/ isolation, -20°C to 60°C
 - **IGS-3208C-M-24V-E.....P/N: 8351-0116**
8 10/100/1000T + 2 10/100/1000T Dual Speed SFP combo L2+ Industrial Managed Ethernet Switch
w/Environmental monitoring; dual 9V~36VDC input w/ isolation, -40°C to 75°C

OPTIONAL ACCESSORIES

DIN Rail Power

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

derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

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|------------------------|--|-----------------------|---|
| ■ 8330-162D-V1 | MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-187D-V1 | 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550) |
| ■ 8330-163D-V1 | MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-180D-V1 | 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310) |
| ■ 8330-165D-V1 | MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-182D-V1 | 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550) |
| ■ 8340-0591D-V1 | MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-181D-V1 | 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310) |
| ■ 8330-166D-V1 | MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-183D-V1 | 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550) |
| ■ 8330-169D-V1 | MINI GBIC 1000XD (LC/SM/60KM) Transceiver | ■ 8330-184D-V1 | 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490) |
| ■ 8330-167D-V1 | MINI GBIC 1000ZX (LC/SM/80KM) Transceiver | ■ 8330-185D-V1 | 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550) |
| ■ 8330-170D-V1 | MINI GBIC 1000EZ (LC/SM/120KM) Transceiver | ■ 8330-071D-V1 | 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver |
| ■ 8330-168-V1 | MINI GBIC 10/100/1000T (100m) Transceiver | ■ 8330-072D-V1 | 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver |
| ■ 8330-060D-V1 | MINI GBIC 100Base (LC/MM/2KM) Transceiver | ■ 8330-069D-V1 | 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver |
| ■ 8330-065D-V1 | MINI GBIC 100Base (LC/MM/5KM) Transceiver | ■ 8330-068D-V1 | 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver |
| ■ 8330-061D-V1 | MINI GBIC 100Base (LC/SM/30KM) Transceiver | ■ 8330-080D-V1 | 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver |
| ■ 8330-197D-V1 | 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) | ■ 8330-082D-V1 | 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver |
| ■ 8330-198D-V1 | 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) | ■ 8330-081D-V1 | 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver |
| ■ 8330-195D-V1 | 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310) | ■ 8330-083D-V1 | 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver |
| ■ 8330-196D-V1 | 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550) | ■ 8330-084D-V1 | 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver |
| ■ 8330-188D-V1 | 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310) | ■ 8330-085D-V1 | 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver |
| ■ 8330-189D-V1 | 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550) | ■ 8330-191D-V1 | Dual Speed SFP 100M/1000M-LX 10KM Transceiver |
| ■ 8330-186D-V1 | 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310) | | |

All SFP# ended with D are with DDM function

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