

I(P)GS-6300-2P

4- Modular-Slots w/4 x10G uplink L2+ Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring; DC/LDC/HV/AC input models

- High-density 24/26xGiga + 4x10G uplink L2 + managed (PoE) Ethernet switch, total 28
- Auto-sensing triple speed1G/2.5G/10G SFP+ Uplink Cage
- Support IEEE802.3at/af up to 30W per port (PoE model)
- Support dual power redundancy AC&DC
- PoE management incl. Detection and Scheduling (PoE model)
- Support PXE to verify switch firmware with the latest or certain version on server
- Optional L3Lite/L3* to be upgradable
- 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; support MRP ring
- 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, MLD snooping, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3, TACACS+, QinQ
- Protocol based VLAN; IPv4 Subnet based VLAN
- Enhanced Environmental Monitoring for temp., actual input voltage, current or total power load
- Support USB slot for upload/download the firmware
- Various dual input model selections : DC/LDC/HV/AC
- Fan-less industrial design: -40~75C operation temperate (-E model)























OVERVIEW

Lantech I(P)GS-6300-2P is a high performance L2+ (All Gigabit) modular Ethernet switch with max 24/26port Gigabit + 4 10G uplink (total 28ports) w/(24 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 in single ring. It also supports enhanced mode with easy configuration, comprehensive QoS, advanced security including INGRESS ACL L2/L3, TACACS+, SSH v2/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port which are important features required in large network. The Cisco Discovery Protocol (CDP) and LLDP are supported for Ciscoworks to detect the switch info and show on L2 map topology.

Up to 24 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech I(P)GS-6300-2P is able to feed each PoE port up to 30 Watt. Lantech I(P)GS-6300-2P 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 port can be enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Miss-wiring avoidance, Node failure protection, Loop

The I(P)GS-6300-2P 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-6300-2P 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.

Enhanced Storm control*

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces and the detection is more precise and reaction is more efficient.

Optional L3Lite/L3* to be upgradable



Lantech OS3 is optional upgradable to L3 Lite for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing.

Support PXE to verify switch firmware with the latest or certain version

The switch can check its firmware version during booting time via PXE protocol. If switch finds any newer version, it will upload automatically.

QoS by VLAN for legacy device

QoS by VLAN can allow switch to tag QoS by VLAN regardless the devices acknowledge QoS or not in which greatly enhance the bandwidth management in a network.

QinQ, QoS and GVRP supported

It supports the QinQ, QoS and GVRP for large VLAN segmentation.

DHCP option 82 & Port based, Mac based DHCP, Option66, IPv6 DHCP server

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. For the ending device, which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Basic IPv6 DHCP service can be supported.

User friendly GUI, Auto topology drawing, FX dB value

The user friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-6300-2P much easier to get hands-on. The I(P)GS-6300-2P 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.

Enhanced G.8032 ring, 8 MSTI MSTP; MRP ring

Lantech I(P)GS-6300-2P 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.

MRP (Media Redundancy Protocol) can be supported for industrial automation networks. GVRP can be supported for large VLAN segmentation.

IGMPv3, GMRP, router port, MLD Snooping, 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 and router port.

MLD snooping and static multicast forwarding binding by ports for video surveillance application.

Editable configuration file; USB port for upload/download configuration

The configuration file of Lantech I(P)GS-6300-2P can be exported and edited with word processor for the other switches configuration with ease. 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. I(P)GS-6300-2P also supports dual image firmware function.

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

Event log & message; 2 DI + 2DO

In case of event, the I(P)GS-6300-2P 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.

Enhanced environmental monitoring for switch inside information

The enhanced environmental monitoring can detect switch real overall temperature, (total PoE load), voltage and current where can send the SNMP traps and email alert when abnormal.

Dual power DC/LDC/HV/AC inputs and dedicated PoE power source input

Lantech I(P)GS-6300-2P chassis and modules are designed for easy maintenance and installation; It also supports dual DC/LDC power supplies (DC12~60V/ isolated 36~75VDC), dual HV (isolated 85~264VAC/100~370VDC) or dual AC(85~264VAC) input to increase the network reliability. It has independent PoE power source input by terminal block for connecting DC 48V PoE power source. (IPGS-6300-2P)

Industrial hardened design with high EFT/SURGE and ESD CONTACT protection

Lantech I(P)GS-6300-2P 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. Featured with relay contact alarm function, the I(P)GS-6300-2P is able to connect with alarm system in case of power failure or port disconnection. The I(P)GS-6300-2P also provides 2000V EFT/SURGE and 6000V ESD CONTACT protection, which can reduce unstable situation caused by power line and Ethernet.

It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory applications. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.



FEATURES & BENEFITS

■ System Interface/Performance

- max 26/24 x Gigabit T + 2/4x1G/2.5G/10G SFP+;
- max. 24 x Gigabit T PoE at/af + 4x1G/2.5G/10G SFP SFP+: (IPGS-6300-2P)
- · 24 x 100/1000M Dual Speed SFP + 4x1G/2.5G/10G SFP+·
- The 4th slot can be 4x10G *SFP*+ or 2 100/1G/10G Copper + 2 1G/2.5G/10G *SFP*+ module
- · Total 28 ports
- · 16K MAC Address Table
- · Backplane : 128Gbps
- Dual LDC Power Supplies for isolated 1600V DC(36V~75V)
- Dual HV Power Conversions for isolated 3000 V (85V~264VAC/100V~370VDC)
- Dual DC power supply terminal block for non-isolated power DC(12V~60V)
- · Dual AC power input (AC85~264VAC)
- Terminal block for PoE power source (DC48V) from seperate PoE power supply (IPGS-6300-2P)
- Various modules available incl. 100M/1000M SFP;
 Gigabit T;PoE at/af Giga T(up to 30W@);
- Auto-sensing triple speed 1G/2.5G/10G SFP+ Uplink cage
- · Fanless design
- · -20°C~60°C / -4°F~140°F (Standard model)
- --40°C~75°C / -40°F~167°F(-E model)
- Embedded 24 PoE ports IEEE802.3af/at function to feed power up to 30W@ for active mode operation (IPGS-6300-2P)
- Dedicate 48V dual input for PoE budget 720W from separate PoE power supply
- PoE management including PoE detection and scheduling for PD (power devices)(IPGS-6300-2P
- Back-plane (Switching Fabric): 128Gbps
- 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 supported
- 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
- 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
- Support PXE to verify switch firmware with the latest or certain version
- DHCP server / client / DHCP Option 82 relay / DHCP
 Option 82 server; Port based DHCP server; DHCP
 Option 66
- 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
- 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
 - SSL/SSH v2/INGRESS ACL L2/L3
 - MAC Address Table: MAC address
 entries/Filter/static MAC-Port binding
 - Remote Admin: IP address security

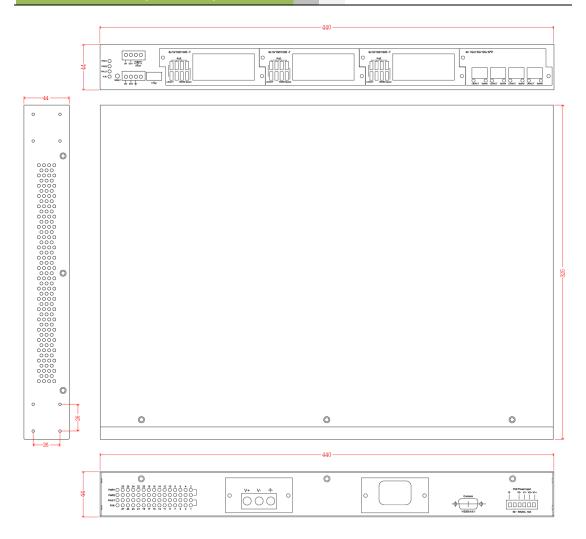
 management to prevent unauthorized intruder.
 - TACACS+
 - Login Security: IEEE802.1X/RADIUS
 - HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- IGMP router port for Multicast protection
- IGMPv1,v2,v3 with Query mode for multimedia;
 GMRP
- Dual image firmware support
- MLD Snooping for IPv6 Multicast stream
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch when CPU is found dead
- Enhanced environmental monitoring for system actual input voltage, current, ambient temperature and total power load
- Supports DIDO (Digital Input/Digital Output)
- Provides EFT/SURGE protection 2000 VDC for power line.
- Diagnostic including Ping / ARP table / DDM information
- Support PXE to verify switch firmware with the latest or certain version
- Optional L3Lite/L3* to be upgradable
- Supports 6000 VDC Ethernet ESD CONTACT



protection

- Configuration backup and restoration
 - Supports text configuration file for system quick installation
- USB slot to upload/download firmware by USB dongle
- TFTP/HTTP firmware upgrade
- IP30 metal housing with rack-mount design

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware :	Specification
IEEE Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Ethernet
	IEEE 802.3ab 1000Base-T Ethernet
	IEEE 802.3z Gigabit Fiber
	IEEE 802.3ae 10G Ethernet over Fiber
	IEEE 802.3an 10G Copper
	IEEE 802.3x Flow Control Capability
	ANSI/IEEE 802.3 Auto-negotiation
	IEEE 802.1Q VLAN
	IEEE 802.1p Class of Service
	IEEE 802.1X Access Control
	IEEE 802.1D Spanning Tree
	IEEE 802.1w Rapid Spanning Tree
	IEEE 802.1s Multiple Spanning Tree
	IEEE 802.3ad Link Aggregation Control Protocol
	(LACP)
	IEEE 802.1AB Link Layer Discovery Protocol
	(LLDP)

	IEEE 802.1x User Authentication (Radius) IEEE 802.3at/af PoE (IPGS-6300-2P)
Switch Architecture	Back-plane (Switching Fabric): 128Gbps
Mac Address	16K MAC address table
Jumbo frame	10KB
Connectors	Max. 24 10/100/1000T RJ-45 with auto MDI/MDI-X function Max 2 10G copper RJ45 Max 24 100M Mini-GBIC : SFP sockets Max 28 1000M Mini-GBIC : SFP sockets Max 4 10G Mini-GBIC : SFP + sockets RS-232 console: Female DB-9 USB slot for upload/download config file DIDO : 1x6pin terminal block
Network Cable	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable; EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/STP Cat5E/6 cable; 10GBaseT:4-pair STP Cat6/6A/7 cable



Company		
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) 2.5Gbps Multi mode: 0 to 300 m, 850 nm (50/125 µm); Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm (9/125 µm); 0 to 40 km/ 80 km/ 100km, 1550 nm (9/125 µm) WDM 1Gbps: 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); 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, 1310 /1550nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 µm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 µm); 0 to 80 km, 1270/1330 nm (9/125 µm); 0 to 80 km, 1270/1330 nm (9/125 µm); 0 to 80 km, 1270/1330 nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm); 0 to 80 km, 1270/1330 nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm) LED Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); Poe**: Link/Activity (Green); Poe**: Link/Activity (Green) DI/DO 2 Digital Input (DI): Depen collector to 40 VDC, 200mA Operating Humidity Operating Humidity One+ one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VAC input AC85-264VAC (AC model) Poep power dual input for 48VDC (IPGS-6300-	Optical Cable	
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Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm (9/125 µm); 0 to 40 km/ 80 km/ 100km, 1550 nm (9/125 µm) WDM 1Gbps: 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 2.5Gbps Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 µm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 µm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 µm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 µm) WDM 10Gbps Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 µm); 0 to 80km, 1490/1550 nm (9/125 µm) LED Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE**: Link/Activity (Green), Speed (Green); PoE**: Link/Activity (Green) DI/DO 2 Digital Input (DI): Level 0: -30-22 V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA Operating Humidity -20°C-60°C / -4°F-140°F (Standard model) -40°C-75°C / -40°F-185°F Temperature -40°C-85°C / -40°F-185°F Temperature Power Supply One+ one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VDC isolated 1600V 36-75VDC (LDC model) Dual input for 12V-60VDC (DC model) One + one** AC input AC85-264VAC (AC model) PoE power dual input for 48VDC (IPGS-6300-		•
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(9/125 μm) WDM 1Gbps: 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 2.5Gbps Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm) 10Gbps Multi mode: 0 to 300 m, 850 nm (OM3 50/125 μm); 0 to 40 km/ 80km/ 100 km, 1350 nm (9/125 μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 μm) WDM 10Gbps Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 μm); 0 to 80km, 1490/1550 nm (9/125 μm) Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE**: Link/Act (Green); Mini-GBIC: Link/Activity (Green) 2 Digital Input (DI): Level 0: -30-2V / Level 1: 1030V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA Operating Humidity Operating Humidity Operating Temperature -20°C-60°C / -4°F-140°F (Standard model) -40°C-85°C / -40°F-185°F Temperature Power Supply One+ one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (DC model) One + one** VAC isolated 1600V 36-75VDC (LDC model) One + one** AC input AC85-264VAC (AC model) PoE power dual input for 48VDC (IPGS-6300-		
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(9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) WDM 2.5Gbps Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm) 10Gbps Multi mode: 0 to 300 m, 850 nm (OM3 50/125 μm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 μm) WDM 10Gbps Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 μm); 0 to 80km, 1490/1550 nm (9/125 μm) Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE**: Link/Activity (Green); PoE**: Link/Activity (Green) DI/DO 2 Digital Input (DI): Level 1: 10–30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA Operating		
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WDM 2.5Gbps Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm) 10Gbps Multi mode: 0 to 300 m, 850 nm (OM3 50/125 μm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 μm); O to 40 km/ 80km/ 100 km, 1550 nm (9/125 μm); WDM 10Gbps Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 μm); 0 to 80km, 1490/1550 nm (9/125 μm) Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE**: Link/Activity (Green), Speed (Green); PoE**: Link/Activity (Green) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA Operating		
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WDM 10Gbps Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 µm); 0 to 80km, 1490/1550 nm (9/125 µm) O to 80km, 1490/1550 nm (9/125 µm) Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE**: Link/Act (Green); Mini-GBIC: Link/Activity (Green) 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA 2		
Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 µm); 0 to 80km, 1490/1550 nm (9/12		
1270/1330 nm (9/125 μm); 0 to 80km, 1490/1550 nm (9/125 μm) LED		•
Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green)		
FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE**: Link/Act (Green); Mini-GBIC: Link/Activity (Green) 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA Operating Humidity Operating Temperature -40°C-75°C / -40°F-140°F (Standard model) -40°C-75°C / -40°F-167°F (-E model) Storage Temperature Power Supply One+ one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VDC isolated 1600V 36-75VDC (LDC model) Dual input for 12V-60VDC (DC model) One + one** AC input AC85-264VAC (AC model) PoE power dual input for 48VDC (IPGS-6300-		nm (9/125 μm)
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(Green); PoE**: Link/Act (Green); Mini-GBIC: Link/Activity (Green) 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA Operating Humidity Operating Temperature -40°C-75°C / -40°F-167°F (-E model) Storage Temperature Power Supply One+ one** VAC/VDC input isolated 3000V 85V-264VAC/100-370VDC (HV model) One + one** VDC isolated 1600V 36-75VDC (LDC model) Dual input for 12V-60VDC (DC model) One + one** AC input AC85-264VAC (AC model) PoE power dual input for 48VDC (IPGS-6300-		
PoE**: Link/Act (Green); Mini-GBIC: Link/Activity (Green)		
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Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA 5% ~ 95% (Non-condensing)	טטיוט	
200mA 200mA 5% ~ 95% (Non-condensing)		
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Storage Temperature Power Supply One+ one** VAC/VDC input isolated 3000V 85V~264VAC/100~370VDC (HV model) One + one** VDC isolated 1600V 36~75VDC (LDC model) Dual input for 12V~60VDC (DC model) One + one** AC input AC85~264VAC (AC model) PoE power dual input for 48VDC (IPGS-6300-		
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One + one** AC input AC85~264VAC (AC model) PoE power dual input for 48VDC (IPGS-6300-		
model) PoE power dual input for 48VDC (IPGS-6300-		
PoE power dual input for 48VDC (IPGS-6300-		·
2P)		•
	D. F. D	2P)
PoE Budget 720W (from separate PoE power supply)	PoE Budget	
(54V input is recommended for PTZ or heater applications		•
PoE pin RJ-45 port # 1~#24 support IEEE 802.3at/af	PoE pin	• •
assignment End-point, Alternative A mode.(IPGS-6300-2P &		
PoE modules)		· · · ·
Positive (VCC+): RJ-45 pin 1,2.		Positive (VCC+): RJ-45 pin 1,2.
Negative (VCC-): RJ-45 pin 3,6.		Negative (VCC-): RJ-45 pin 3,6.
Power 30W		30W
Consumption Case Dimension Metal case. IP-30		Metal case, IP-30
440mm(W)x325mm(D)x44mm(H)	Sass-Dimension	
Weight 900 g		-
Installation Rackmount Design EMI & EMS FCC Class A,		
CE EN55032 Class A, CE EN55024,	LIVII & LIVIO	
CE EN61000-4-2, CE EN61000-4-3,		CE EN61000-4-2, CE EN61000-4-3,
CE EN61000-4-4, CE EN61000-4-5 ED3, CE EN61000-4-6, CE N61000-4-8,		
EN61000-4-6, CE N61000-4-6, EN61000-4-11, EN 50121-4, EN 50121-5		

IECO0068-2-27 (Shock), IECO0068-2-27 (Shock), IECO0068-2-6 (Vibration) 30368 hours (standards IEC 62380) Software Specification ShMP vt v2c, v3 Web/Telnet/CLI ShMP MIB RFC 1213 MIBI RFC 1157 ShMP MIB RFC 1157 ShMP MIB RFC 1493 Bridge MIB* RFC 1493 Bridge MIB* RFC 1493 Bridge MIB* RFC 2819 RMON MIB Private MIB RFC 2819 RMON MIB Private MIB RFC 2819 RMON MIB Private MIB Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring enhanced mode) Support various ring/chain topologies Includes basic ring and enhanced ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart the PD (IPGS-6300-2P) PoE Detection to check if PD hangs then restart	Stability Tacting	IEC60068-2-32 (Free fall),
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forwarding IGMP flow with multicast packets binding with	MLD Snooping	Support IPv6 Multicast stream
	Static multicast	Static multicast forwarding forward reversed
ports for IP surveillance application	forwarding	IGMP flow 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 filter and the egress packet limit.
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Supports System log record and remote system log server
SMTP	Supports SMTP Server and 8 e-mail accounts for
	receiving event alert
Relay Alam	Provides one relay output for port breakdown,
	power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Protection	Miss-wiring avoidance
FIOLECTION	Node failure protection
	Loop protection
SNMP Trap	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)
	Power failure

	 Environmental abnormal
PXE	PXE to verify switch firmware with the latest or certain version
DHCP	Provide DHCP Client/ DHCP Server/DHCP
	Option 82 (Client & Server)/Port based DHCP; DHCP Option 66; basic IPv6 DHCP server
Mac based	Assign IP address by Mac that can include dumb
DHCP Server	switch in DHCP network
Optional	Lantech OS3 is optional upgradable to L3
L3Lite/L3*	Lite/L3* for future expansion. The optional L3Lite
LOLIKO, LO	includes editable routing table, VRRP, Router-on- a-stick, Inter- VLAN routing.
DNS	Provide DNS client feature and support Primary
	and Secondary DNS server.
SNTP	Supports SNTP to synchronize system clock in Internet
Firmware	Supports TFTP firmware update, TFTP backup
Update	and restore; HTTP firmware upgrade
Configuration	Supports text configuration file for system quick
upload and	installation; Support factory reset button to
download	restore all settings back to factory default; USB
	for mass backup, editing configuration and upgrade
Diagnostic	Support Ping, ARP table and DDM information
Dual Image	Support dual image firmware function
Firmware	

*Future release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

ICC-6300-3D-U/	P/N: 8380-208
103-0300-27-114	

4 Modular Slots L2 plus Industrial 10G Uplink Ethernet Switch Chassis; Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket; -20°C to 60°C

■ IGS-6300-2P-HV-EP/N: 8380-2081

4 Modular Slots L2 plus Industrial 10G Ethernet Switch Chassis

Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket; -40°C to 75°C

■ IGS-6300-2P-LDCP/N: 8380-209

4 Modular Slots L2 plus Industrial 10G Ethernet Switch Chassis

Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -20°C to 60°C

■ IGS-6300-2P-LDC-EP/N: 8380-2091

4 Modular Slots L2 plus Industrial 10G Ethernet Switch Chassis

Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -40°C to 75°C

■ IGS-6300-2P-ACP/N: 8380-202

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x AC85~264VAC IEC320 power conversion + 1x additional power socket; -20°C to 60°C

■ IGS-6300-2P-AC-EP/N: 8380-203

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x AC85~264VAC IEC320 power conversion + 1x additional power socket; -40°C to 75°C

■ IGS-6300-2P-DCP/N: 8380-205

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x DC 12~60VDC power supply + 1x additional power socket; -20°C to 60°C

■ IGS-6300-2P-DC-EP/N: 8380-206

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x DC 12~60VDC power supply + 1x additional power socket; -40°C to 75°C

■ IPGS-6300-2P-HVP/N: 8380-210

4 Modular Slots L2 plus 10G Industrial PoE Ethernet Switch Chassis

Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C

■ IPGS-6300-2P-HV-EP/N: 8380-2101

4 Modular Slots L2 plus 10G Industrial PoE Ethernet Switch Chassis



Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input: -40°C to 75°C

IPGS-6300-2P-LDCP/N: 8380-211

4 Modular Slots L2 plus Industrial PoE Ethernet Switch Chassis

Built-in 1x isolated DC 36~85VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C

IPGS-6300-2P-LDC-EP/N: 8380-2111

4 Modular Slots L2 plus Industrial PoE Ethernet Switch Chassis

Built-in 1x isolated DC 36~85VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C

IPGS-6300-2P-AC.....P/N: 8380-204

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x AC85~264VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C

IPGS-6300-2P-AC-EP/N: 8380-2041

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x AC85~264VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C

IPGS-6300-2P-DCP/N: 8380-207

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x DC 12-60VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C

IPGS-6300-2P-DC-EP/N: 8380-2071

4 Modular Slots L2 plus 10G Industrial Ethernet Switch Chassis

Built-in 1x DC 12~60VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C

Modules for Slot 1-3 Note: the modules will be factory pre-installed.

8x GIGA T Module......P/N: 8380-123

8x 10/100/1000T Module: -40°C to 75°C

8x GIGA T-PoE at/af Module......P/N: 8380-124

8x 10/100/1000T PoE at/af Module; -40°C to 75°C

8x SFP Module......P/N: 8380-125

8x Dual Speed SFP module for 100M SFP or Gigabit SFP; -40°C to 75°C

Modules for Slot 4 Note: the modules will be factory pre-installed.

4x 10G SFP+ Module......P/N: 8380-126

4x 10G SFP+ Module for slot 4; -40°C to 75°C

2 100M/1G/10G Copper + 2 100M/1G/2.5G/10G SFP+ Module......P/N: 8380-127

2x 100M/1G/10G Copper + 2 100M/1G/2.5G/10G SFP+ Module for slot 4 ; -40 $^{\circ}$ C to 75 $^{\circ}$ C

OPTIONAL ACCESSORIES

Software package

OS3 - L3L...... P/N: 9000-114

OS3 software platform with Layer 3 Lite functions (please check Lantech software data sheet for details)

OS3 – L3*..... P/N: 9000-116

OS3 software platform with Layer 3 functions (please check Lantech software data sheet for details)

Power

EOTH000701

Isolated Power conversion 85-264VAC, 100-370VDC 1.5A, 47-63HZ



FOTH000702

Isolated Power conversion 36-75VDC, 2.5A



EOTH000703



Isolated Power conversion 85-264VAC IEC320 socket, 1.5A , 47-63HZ



EOTH000704

Power Input Module 12-60VDC, 2.5A



Mini GBIC (SFP)

■ 8330-162X ■ 8330-163X	MINI GBIC 1000SX (LC/0.5km) Transceiver MINI GBIC 1000SX2 (LC/2km) Transceiver
■ 8330-165X	MINI GBIC 1000LX (LC/10km) Transceiver
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver
8330-170	MINI GBIC 1000EZX (120km) Transceiver
8330-168	MINI GBIC 1000T (100m) Transceiver
8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)
8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)

All SFP ended with D are with Diagnostic function

8330-262D 8330-263D 8330-265D 8330-193D 8330-194D Transceiver	MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver 10G Base SFP+ SR, Multi-mode (LC/300m) Transceiver 10G Base SFP+ LR, Single-mode (LC/10km)
8330-209D (W DM 1270)	10G Base SFP+ , Single-mode(10km) Transceiver
8330-210D (WDM 1330)	10G Base SFP+ , Single-mode(10km) Transceiver
8330-200D (WDM 1270)	10G Base SFP+ , Single-mode(20km) Transceiver
8330-201D (WDM 1330)	10G Base SFP+ , Single-mode(20km) Transceiver
8330-202D (WDM 1270)	10G Base SFP+ , Single-mode(40km) Transceiver
8330-203D (WDM 1330)	10G Base SFP+ , Single-mode(40km) Transceiver

Lantech Communications Global Inc.

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