

I(P)GS-3204MGSFP

4 GT + 2 1G/2.5G SFP L2+ w/4 PoE at/af Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring; Optional 12V/24V/48V 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
- 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 9~36VDC (24V model); 44V~56VDC input (48V model)
- Non-PoE model: dual 9V~60VDC input (12V model); 9~36VDC (24V model)
- Optional Environmental monitoring function to display inside switch info incl. temperature, voltage, current, power consumption
- Only 24VDC input system is applicable for E-mark approval
- E-marking certificate for vehicle application
- USB port for backup, restore the configuration file



Non-PoE model

PoE model



OVERVIEW

Lantech I(P)GS-3204MGSFP is a high performance L2+ all Gigabit switch with 4 10/100/1000T + 2x 1G/2.5G selectable multi-Giga-rate SFP 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 4 Giga Ports with detection and scheduling

Lantech IPGS-3204MGSFP supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD is hanged then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE ports can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-3204MGSFP 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-3204MGSFP 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.

Miss-wiring avoidance, Node failure protection, Loop protection

The I(P)GS-3204MGSFP 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 IPGGS-3204MGSFP is able to alert with the LED indicator and disable ring automatically. Node failure protection function 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.

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-3204MGSFP 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.

Event log; Relay alarm

In case of event, the I(P)GS-3204MGSFP is able to send SNMP Traps out immediately. Featured with relay contact alarm function, the I(P)GS-3204MGSFP 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 I(P)GS-3204MGSFP-24V is designed with dual input power at 9V~36VDC and 48V model with 44V~56VDC for PoE model while IGS-3204MGSFP-12V is at 9V~60VDC. The PoE budget for 12V input is 60W and for 24V input is 120W, for 48V input is 120W. (PoE Model)

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.

Optional environmental monitoring for inside switch info

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

High reliability and extended working temperature

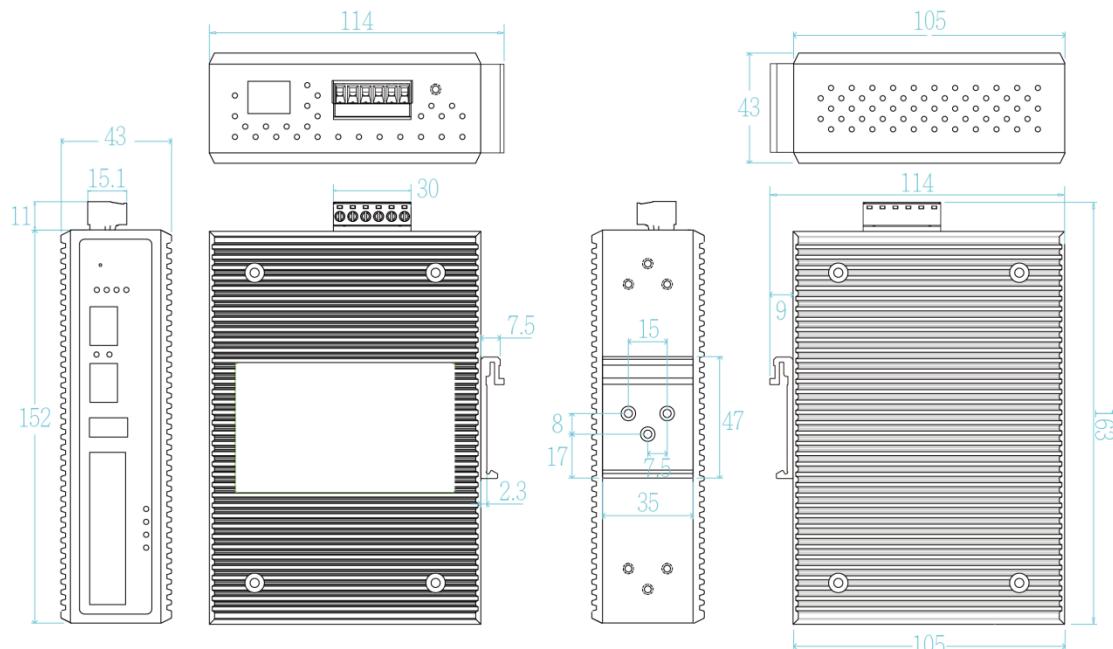
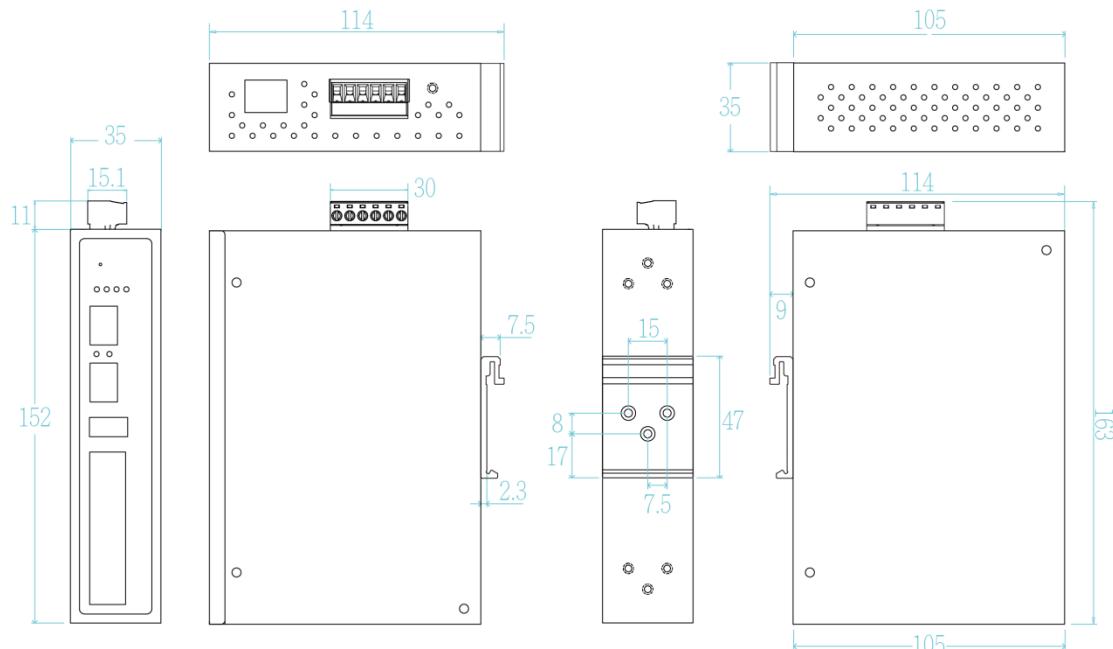
Lantech I(P)GS-3204MGSFP provides $\pm 2000V$ EFT/SURGE and ± 4000 VDC (Contact) / ± 8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless backhaul, Semiconductor 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

- 4 10/100/1000T + 2 1G/2.5G selectable SFP w/4 PoE 802.3af/at Injectors (Total 6 Ports Switch)
- Support 10K bytes jumbo frames
- Embedded 4 PoE ports IEEE802.3af/at function to feed power up to 30W per port for active operation
- Dual 9V~36VDC power input for 24V model with PoE budget 60W at 12V input, 120W at 24V input, 120W at 48V input (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): 18Gbps
- 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 on all ports
- 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, 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
- Built-in RTC (Real Time Clock) to keep track of time
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP, 802.1s MSTP VLAN redundancy with 8 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP
- 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)
PoE model

Non PoE model

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)
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	IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.3at/af Power over Ethernet	Case Dimension	PoE model, Metal case. IP-30, 43(W) x 105(D) x 152(H) mm Non-PoE model, Metal case. IP-30, 35(W) x 105(D) x 152(H) mm
Switch Architecture	Back-plane (Switching Fabric): 18Gbps		
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber / Gigabit Ethernet port	Weight	800 g
CPU	1600 MHz	Installation	DIN Rail and Wall Mount** Design
RAM	512M Byte	EMI & EMS	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
Flash	256M Byte	Safety	EN60950 (LVD)
Mac Address	16K MAC address table	MTBF	864,896 hours (standards: IEC 62380)
Jumbo frame	10KB	Software Specification	
Connectors	10/100/1000T: 4 x ports RJ-45 with Auto MDI/MDI-X function SFP port: 2 x 2.5G/1G selectable cage by software with DDMI supported RS-232 connector: RJ-45 type; USB x 1 Power & Relay connector: 1 x 6-pole terminal block	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
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)	SNMP MIB	MIB MIBII SNMP MIB Bridge MIB IF MIB RMON MIB Private MIB
Optical Cable	1Gbps: 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) 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) 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)	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 various ring/chain topologies Includes basic single ring & enhanced ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection
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)	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
Operating Humidity	5% ~ 95% (Non-condensing)	Per Port PoE Status	On/ Off, voltage, current, watts, temperature
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	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
Storage Temperature	-40°C~85°C / -40°F~185°F	Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups/Maximum 10 trunk members
Power Supply	Non-PoE model: 9~60VDC (12V model) 9~36VDC (24V model) PoE model: 9.5~56VDC (12V model) 9~36VDC (24V model) 44~56VDC (48V PoE model) (All model with Ethernet galvanic isolation)	LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN
PoE Budget	60W at 12V input; 120W at 24V input (24V model) 120W 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. **	CDP	Cisco Discovery Protocol for topology mapping
PoE pin assignment	RJ-45 port # 1~ # 4 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.	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
Power Consumption	10W	IPv6/4	Present
		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 unauthorized intruder.
		Login Security	Supports IEEE802.1X Authentication/RADIUS
		Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
		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
		IGMP	Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port ; IGMP query, GMRP

Static MAC-Port Bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application		<ul style="list-style-type: none"> Port link up/link down DI/DO open/close Topology change(ITU ring) Power failure Environmental abnormal
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.	DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 (Relay & Server)/Port based DHCP; DHCP Snooping; DHCP option 66
RTC	Built-in Real Time Clock to keep track of time always	DNS	Provide DNS Client feature and support Primary and Secondary DNS server.
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex	SNTP	Supports SNTP to synchronize system clock in Internet
System Log	Supports System log record and remote system log server	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)
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V	Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Protection	<ul style="list-style-type: none"> Miss-wiring avoidance Node failure protection Loop protection 	Configuration upload and download	<ul style="list-style-type: none"> 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
SNMP Trap	Up to 10 trap stations; trap types including: <ul style="list-style-type: none"> Device cold start Authorization failure 		*Future Release **Optional ***Optional DDM SFP required

ORDERING INFORMATION

- **IPGS-3204MG-SFP-48V.....P/N: 8351-003**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;
dual 44~56VDC input; -20°C to 60°C
- **IPGS-3204MG-SFP-48V-E.....P/N: 8351-004**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;
dual 44~56VDC input; -40°C to 75°C
- **IPGS-3204MG-SFP-24V.....P/N: 8351-0033**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;
dual 9~36VDC input; -20°C to 60°C
- **IPGS-3204MG-SFP-24V-E.....P/N: 8351-0043**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;
dual 9~36VDC input; -40°C to 75°C
- **IPGS-3204MG-SFP-12V(EOL).....P/N: 8351-005**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;
dual 9.5V~56VDC input; -20°C to 60°C
- **IPGS-3204MG-SFP-12V-E(EOL).....P/N: 8351-006**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch;
dual 9.5V~56VDC input, -40°C to 75°C
- **IPGS-3204MG-SFP-M-48V.....P/N: 8351-0031**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch
+ environmental monitoring; dual 44~56VDC input; -20°C to 60°C
- **IPGS-3204MG-SFP-M-48V-E.....P/N: 8351-0041**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch
+ environmental monitoring; dual 44~56VDC input; -40°C to 75°C
- **IPGS-3204MG-SFP-M-24V.....P/N: 8351-0034**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch
+ environmental monitoring; dual 9~36VDC input; -20°C to 60°C
- **IPGS-3204MG-SFP-M-24V-E.....P/N: 8351-0042**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch
+ environmental monitoring; dual 9~36VDC input; -40°C to 75°C
- **IPGS-3204MG-SFP-M-12V(EOL).....P/N: 8351-0051**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch
+ environmental monitoring, dual 9.5V~56VDC input; -20°C to 60°C
- **IPGS-3204MG-SFP-M-12V-E(EOL).....P/N: 8351-0061**
4 10/100/1000T + 2 1G/2.5G SFP w/4 PoE Mode A 802.3at/af 30W L2+ Industrial Managed Ethernet Switch
+ environmental monitoring, dual 9.5V~56VDC input, -40°C to 75°C
- **IGS-3204MG-SFP-12V.....P/N: 8351-007**
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch, dual 9.5V~60VDC input; -20°C to 60°C
- **IGS-3204MG-SFP-12V-E.....P/N: 8351-008**

- 4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch, dual 9.5V~60VDC input, -40°C to 75°C
IGS-3204MGSFP-M-12V.....P/N: 8351-0071
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9.5V~60VDC input; -20°C to 60°C
- **IGS-3204MGSFP-M-12V-E.....P/N: 8351-0081**
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9.5V~60VDC input, -40°C to 75°C
- **IGS-3204MGSFP-24V.....P/N: 8351-0072**
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch, dual 9V~36VDC input; -20°C to 60°C
- **IGS-3204MGSFP-24V-E.....P/N: 8351-0082**
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch, dual 9V~36VDC input, -40°C to 75°C
- **IGS-3204MGSFP-M-24V.....P/N: 8351-0073**
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9V~36VDC input; -20°C to 60°C
- **IGS-3204MGSFP-M-24V-E.....P/N: 8351-0083**
4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9V~36VDC input, -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)

■ 8330-162D-V1	MINI GBIC 1000SX (LC/0.5km) Transceiver	■ 8330-187D-V1	LTSFP-1000BX-20KM Transceiver (WDM 1550)
■ 8330-163D-V1	MINI GBIC 1000SX2 (LC/2km) Transceiver	■ 8330-180D-V1	LTSFP-1000BX-40KM Transceiver (WDM 1310)
■ 8330-165D-V1	MINI GBIC 1000LX (LC/10km) Transceiver	■ 8330-182D-V1	LTSFP-1000BX-40KM Transceiver (WDM 1550)
■ 8340-0591D-V1	MINI GBIC 1000LHX (LC/40km) Transceiver	■ 8330-181D-V1	LTSFP-1000BX-60KM Transceiver (WDM 1310)
■ 8330-166D-V1	MINI GBIC 1000XD (LC/50km) Transceiver	■ 8330-183D-V1	LTSFP-1000BX-60KM Transceiver (WDM 1550)
■ 8330-169D-V1	MINI GBIC 1000XD (LC/60km) Transceiver	■ 8330-184D-V1	LTSFP-1000BX-80KM Transceiver (WDM 1490)
■ 8330-167D-V1	MINI GBIC 1000ZX (LC/80km) Transceiver	■ 8330-185D-V1	LTSFP-1000BX-80KM Transceiver (WDM 1550)
■ 8330-170D-V1	MINI GBIC 1000EZK (120km) Transceiver	■ 8330-218D-V1	MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver
■ 8330-168-V1	MINI GBIC 1000T (100m) Transceiver	■ 8330-262D-V1	MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver
■ 8330-188D-V1	LTSFP-1000BX-10KM Transceiver (WDM 1310)	■ 8330-265D-V1	MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver
■ 8330-189D-V1	LTSFP-1000BX-10KM Transceiver (WDM 1550)		
■ 8330-186D-V1	LTSFP-1000BX-20KM Transceiver (WDM 1310)		

All SFP ended with D are with Diagnostic function

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