

IPGS-5408DFT

2 10/100/1000T + 2 100/1000 SFP + 8 10/100/1000T w/8 PoE at/af

L2+ Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring

- Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode, enhanced mode, train mode, multi-VLAN and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI / RSTP; support MRP ring**
- Support IEEE802.3at/af up to 30W per port
- 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; Port based DHCP distribution, Mac based DHCP server,

 QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3,TACACS+*,QinQ**,SMS**
- Protocol based VLAN**; IPv4/IPv6 Subnet based VLAN**.
- Optional Environmental Monitoring for temp, voltage and current (-M model)
- Wide range dual DC input from ±44V~57V
- USB port to backup, restore the configuration file and upgrade firmware*



















OVERVIEW

Lantech IPGS-5408DFT is a high performance L2+ (All Gigabit) industrial Ethernet switch with 8 10/100/1000T PoE at/af + 2 10/100/1000T + 2 Dual Speed 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 in single ring while also supports train ring, enhanced mode, multiple VLAN mode with easy configuration. The comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+*, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ** are supported and also required in large network.

It also supports Cisco Discovery Protocol (CDP) for Ciscoworks to detect the switch info and show on L2 map topology.

Up to 8 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech IPGS-5408DFT is able to feed each PoE port up to 30 Watt, total PoE budget 240W. Lantech IPGS-5408DFT 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, Repowered auto ring restore, Loop protection

The IPGS-5408DFT 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-5408DFT is able to alert with the LED indicator and disable ring automatically. Repowered auto ring restore function (node failure protection) ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

Enhanced G.8032 ring, 16 MSTI MSTP; Optional MRP ring

Lantech IPGS-5408DFT features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering Multicast packets. It also supports various ring topologies that covers double ring, multi-chain (under enhanced ring), train ring, basic ring multiple-VLAN ring and auto-ring by easy setup than others. The innovative auto-Ring configurator (auto mode) can calculate owner and neighbor in one step.

It supports MSTP that allows each spanning tree for each VLAN for redundant links with 16 MSTI.



Optional MRP (Media Redundancy Protocol) can be supported for industrial automation networks

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. Optional IPv6 address resolution for DHCP service can be supported.

QoS by VLAN for legacy devices

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 QinQ** and GVRP** supported

It supports the QinQ**, QoS QinQ**, 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.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-5408DFT much easier to get hands-on. The IPGS-5408DFT 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.

Editable configuration file; Factory reset button

The configuration file of Lantech IPGS-5408DFT 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.

USB port for configuration upload & download

The built-in USB port can have configuration upload & download by USB dongle.

Event log & message; 2 DI / 2DO

In case of event, the IPGS-5408DFT is able to send an email & SMS** text message 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.

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

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

Wide range dual DC powered input; Relay contact alarm, High ESD protection

The Lantech IPGS-5408DFT is designed with wide range dual power input from $\pm 44 \text{V} \sim 57 \text{VDC}$. Featured with relay contact alarm function, the IPGS-5408DFT is able to connect with alarm system in case of power failure or port disconnection. The IPGS-5408DFT also provides $\pm 2000 \text{V}$ EFT and $\pm 4000 \text{VDC}$ (Contact) / $\pm 8000 \text{ VDC}$ (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IPGS-5408DFT features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, mining, process control and railway(EN50121-4). It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C

FEATURES & BENEFITS

- 8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed
 SFP w/8 PoE 802.3af/at Injectors (Total 12 Ports
 Switch)
- Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W for active mode operation.
 Max. PoE budget: 240W
- PoE management including PoE detection and scheduling for PD (power devices)
- Back-plane (Switching Fabric): 24Gbps
- Packet Buffer: 2Mbit

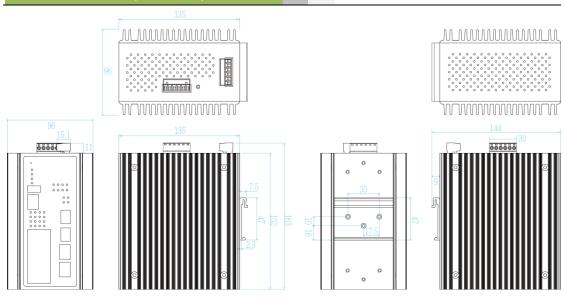
- Store-and-Forward Switching Architecture
- 16K MAC address table
- DDM to support SFP diagnostic function***
 - Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance
- 10KB Jumbo frame
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring recovery < 20ms in single ring



- Support various ring/chain topologies, including train ring, enhanced ring, basic ring, auto ring & multiple VLAN ring
- Enhanced G.8032 ring configuration with ease
- Auto ring configuration(auto mode) for single ring
- Covers multi-cast and data packets
- Provides EFT 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 16 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP**, QinQ**, QoS QinQ**
- 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 Option 66; IPv6 address resolution for DHCP server**
- 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
- Repowered auto ring restore
 - Ensure the switches in a ring to survive after power breakout is back
 - The status can be shown in NMS when each switch is back
- TFTP/SFTP**/HTTP firmware upgrade
- Configuration backup and restoration

- Supports text configuration file for system quick installation
- USB port for upload / download configuration by
 USB dongle
- System Event Log, SMTP Email alert, SMS** mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH/INGRESS/EGRESS ACL L2/L3
 - Port Security: MAC address entries/Filter/MAC-Port binding
 - IP Security: 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 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
- Watchdog design to auto reboot switch CPU is found dead
- Supports DIDO (2 Digital Input / 2 Digital Output)
- Wide range dual input power from ±44V to 57V
- Environmental monitoring** for system input voltage, current, total PoE load and ambient temperature.(-M model)
- IP30 metal housing with DIN rail and Wall-mount** design
- used in extreme environments with an operating temperature range of -40°C to 75°C (-E model)

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			
	EEE802.3x 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): 24Gbps			
Packet Buffer	2Mbit			
Transfer Rate	14,880pps for Ethernet port			
	148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit			
	Fiber port			
Mac Address	16K MAC address table			
Jumbo frame	10KB			
Connectors	10/100/1000T:10 x ports RJ-45 PoE with			
	Auto MDI/MDI-X function			
	Mini-GBIC: 2 x 100/1000 SFP socket with			
	DDM			
	RS-232 connector: RJ-45 type			
	USB x 1			
	Power & Relay connector: 1 x 6-pole terminal			
	block			
DaE nin assignment	DIDO : 1 x 6-pole terminal block			
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			
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6			
Network Cable	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/			
	1310 nm (9/125 µm); 0 to 50 km/ 60 km/ 80km/ 120 km. 1550 nm (9/125 µm)			
	1310 nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm) 125Mbps:			
	80km/ 120 km, 1550 nm (9/125 μm)			
	80km/ 120 km, 1550 nm (9/125 μm) 125Mbps:			
	80km/ 120 km, 1550 nm (9/125 μm) 125Mbps: Multi mode: 0 to 2 km/ 5 km, 1310 nm			
	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)			
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	(Green); Mini-GBIC: Link/Activity (Green)		
DI/DO	2 Digital Input (DI) :		
	Level 0: -30~2V / Level 1: 10~30V		
	Max. input current:8mA		
	2 Digital Output(DO): Open collector to 40		
On any time the section of	VDC, 200mA		
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	-40°C~75°C / -40°F~185°F		
Temperature	40 0 00 07 40 1 100 1		
Power Supply	±44 to 57 VDC		
Power Consumption	10W		
PoE Budget	Max. 240W		
Case Dimension	Metal case. IP-30,		
Maiabt	96 (W) x 135 (D) x 152 (H) mm		
Weight Installation	900 g		
EMI & EMS	DIN Rail and Wall Mount** Design FCC Class A,		
LIVII & LIVIO	CE EN 55032, CE EN 55024,		
	CE EN 61000-4-2, CE EN 61000-4-3,		
	CE EN 61000-4-4, CE EN 61000-4-5,		
	CE EN 61000-4-6, CE EN 61000-4-8,		
	CE EN 61000-4-11, CE EN 61000-6-2		
Stability Testing	IEC 60068-2-32 (Free fall),		
	IEC 60068-2-27 (Shock), IEC 60068-2-64 (Vibration)		
Railway compliance	EN 50121-4,		
rtaimay compilarios	EN 50121-5		
MTBF	830,589 hrs		
	(standards IEC 62830)		
Warranty	5 years		
Software Spe			
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI		
SNMP MIB	RFC 1215 Traps MIB*, RFC 1213 MIBII		
SNMP MIB	RFC 1215 Traps MIB*, RFC 1213 MIBII RFC 1158 MIBII		
SNMP MIB	RFC 1213 MIBII		
SNMP MIB	RFC 1213 MIBII RFC 1158 MIBII		
SUMP MIR	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB		
SUMH WIR	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*,		
SUMP MIR	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON,		
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User friendly UI Port Trunk with LACP LLDP	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; Bridge MIB, LLDP MIB RSTP MIB* Private MIB Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring) Support various ring/chain topologies Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data Auto topology drawing Topology demo Auto configuration for G.8032(auto mode) for single ring DDM threshold monitoring with dB values**** Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups		
User friendly UI Port Trunk with LACP	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; Bridge MIB, LLDP MIB RSTP MIB* Private MIB Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring) Support various ring/chain topologies Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data Auto topology drawing Topology demo Auto configuration for G.8032(auto mode) for single ring DDM threshold monitoring with dB values*** Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology		
User friendly UI Port Trunk with LACP LLDP	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; Bridge MIB, LLDP MIB RSTP MIB* Private MIB Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring) Support various ring/chain topologies Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data Auto topology drawing Topology demo Auto configuration for G.8032(auto mode) for single ring DDM threshold monitoring with dB values**** Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups		



Monitoring**	PoE load 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**, QinQ**, QoS QinQ**, Protocol		
	based VLAN**; IPv4/IPv6 Subnet based		
	VLAN**		
IPv6/4	Present		
RSTP/MSTP	Supports IEEE802.1d Spanning Tree and		
	IEEE802.1w Rapid Spanning Tree,		
	IEEE802.1s Multiple Spanning Tree with		
	16MSTI		
Quality of Service	The quality of service determined by port,		
	Tag and IPv4 Type of service, IPv4		
Class of Camina	Differentiated Services Code Points - DSCP		
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues		
QoS by VLAN	Tagged QoS by VLAN for all devices in the		
QUO DY VEAIN	network		
IP Security	Supports 10 IP addresses that have		
ir Security	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.		
	802.1X access control for port based and		
	MAC based authentication/MAC-Port binding		
	Ingress/Egress ACL L2/L3		
	SSL/ SSH for Management		
	HTTPS for secure access to the web		
	interface		
	TACACS+* for Authentication		
IGMP	Support IGMP snooping v1,v2,v3; 1024		
	multicast groups; IGMP router port ; IGMP query; GMRP**		
Static MAC-Port	Static multicast forwarding forward reversed		
bridge	IGMP flow with multicast packets binding		
	with ports for IP surveillance application		
Bandwidth Control			
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/Text SMS**	Supports SMTP Server and 8 e-mail accounts for receiving event alert; can send SMS** text alert via mobile			
Relay Alarm	Provides one relay output for port			
	breakdown, power fail and alarm.			
	Alarm Relay current carry ability: 1A @			
	DC24V			
Protection	 Miss-wiring avoidance 			
	 Repowered auto ring restore 			
	■ 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**			
DHCP	Provide DHCP Client/ DHCP Server/DHCP			
	Option 82 relay/ server			
Mac based DHCP	Assign IP address by Mac that can include			
Server	dumb switch in DHCP network			
DNS	Provide DNS client feature and support			
	Primary and Secondary DNS server.			
SNTP	Supports SNTP to synchronize system clock			
31111	in Internet			
	in internet			
Firmware Update	Supports TFTP/SFTP** firmware update,			
	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware			
Firmware Update	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware upgrade			
Firmware Update Configuration	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware upgrade Supports text configuration file for system			
Firmware Update	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware upgrade Supports text configuration file for system quick installation			
Firmware Update Configuration	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware upgrade Supports text configuration file for system			

ORDERING INFORMATION

■ IPGS-5408DFT......P/N: 8350-570

2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot & dual \pm 44 \sim 57VDC input; -20°C to 60°C

■ IPGS-5408DFT-E......P/N: 8350-571

2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot &dual \pm 44 ~ 57VDC input; -40°C to 75°C

■ IPGS-5408DFT-M......P/N: 8350-572

2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot, environmental monitoring & dual $\pm 44 \sim 57$ VDC input; -20°C to 60°C

■ IPGS-5408DFT-M-E......P/N: 8350-573

2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot, environmental monitoring & dual $\pm 44 \sim 57$ VDC input; -40°C to 75°C



OPTIONAL ACCESSORIES

DIN Rail Power

■ 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)

Mini GBIC (SFP)

8330-162X	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	8330-187	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
8330-163X	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	8330-180	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
8330-165X	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	8330-182	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
8340-0591	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	8330-181	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
8330-166	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	8330-183	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
8330-169	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	8330-184	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
8330-167	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	8330-185	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
8330-170	MINI GBIC 1000EZX (LC/SM/120KM) Transceiver	8330-071	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
8330-168	MINI GBIC 10/100/1000T (100m) Transceiver	8330-072	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
8330-060	MINI GBIC 100Base (LC/MM/2KM) Transceiver	8330-069	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
8330-065	MINI GBIC 100Base (LC/MM/5KM) Transceiver	8330-068	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
8330-061	MINI GBIC 100Base (LC/SM/30KM) Transceiver	8330-080	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
8330-197	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)	8330-082	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
8330-198	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	8330-081	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
8330-195	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	8330-083	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
8330-196	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	8330-084	125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
8330-188	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	8330-085	125Mbps BiDi SFP 80KM (WDM 1550) Transceiver
8330-189	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)	8330-191	Dual Speed SFP 100M/1000M-LX 10KM Transceiver
8330-186	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)	All part no. v	vith D are with DDM function

Wall Mount Bracket

MBAK19003 Wall mount bracket for 74(W) x 105 (D) x 152 (H) mm / 96 (W) x 105 (D) x 152 (H) mm Industrial switches

Lantech Communications Global Inc.

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