I(P)GS-L5408MGSFP

8 10/100/1000T + 4 1G/2.5G SFP (w/8 PoE af/at/bt) OS3 Industrial Managed

Ethernet Switch w/ Enhanced G.8032 Ring, PXE; 24V/48V input

- Total 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE af/at/bt ports (PoE -PBT model)
- 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
- Support PXE to verify switch firmware with the latest or certain version on server
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, MLD snooping, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, DHCP Snooping, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3, TACACS+, QinQ, QoS by VLAN
- Protocol based VLAN; IPv4 Subnet based VLAN
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- USB port to upload & download the configuration file
- Optional L3Lite/L3* to be upgradable
- Dual 24V/48V input voltage
- Max PoE budget 120W @24V; 240W @48V (PoE model)
- Factory reset pin to restore to factory default setting
- Wide range operation temperature: -40~70C/-40~158F























OVERVIEW

FBLINK I(P)GS-L5408MGSFP is a high performance OS3 Industrial Ethernet switch with 8 10/100/1000T + 4 1G/2.5G SFP (w/8 802.3at/af/bt PoE ports) which provides advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports enhanced mode with easy configuration. The comprehensive QoS, advanced security including INGRESS ACL L2/L3, TACACS+, SSH v2/SSL and Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port are supported and are also required in large network. It also supports10K Jumbo frames.

Up to 8 PoE 802.3bt ports w/advanced PoE management (PoE -PBT model)

Compliant with 802.3bt standard, the FBLINK IPGS-L5408MGSFP being able to feed each PoE port up to 60 Watt at each PoE port for various IP PD device(-PBT model). FBLINK IPGS-L5408MGSFP 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-L5408MGSFP also embedded several features for

strong 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-L5408MGSFP being able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the Ethernet switches in a ring to survive after power breakout is back. The status can be shown in NMS when each Ethernet 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.

DHCP option 82 & Port based, Mac based DHCP, Option66. DHCP Snooping, 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. DHCP Snooping is supported. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application. Basic IPv6 DHCP service can be

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.

User friendly GUI, Auto topology drawing

The user-friendly UI, innovative auto topology drawing and

topology demo makes I(P)GS-L5408MGSFP 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; MRP ring

FBLINK I(P)GS-L5408MGSFP 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 RSTP over VLAN for redundant links with 8 MSTI.

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

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.

QinQ, QoS and GVRP supported

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

Protocol based VLAN; Subnet based VLAN

The protocol-based VLAN processes traffic based on protocol. It filters IP traffic from nearby end-stations using a particular protocol such as IP, IPX, ARP or other Ethernet-types in a Hex value. Subnet based VLANs group traffics into logical VLANs based on the source IP address and IP subnet. The above features can help to build VLAN in the network mixed with managed and un-managed switch as to define packets to which VLAN group based on protocol or subnet.

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

802.1X security by MAC address

MAC-based port authentication is an alternative approach to 802.1x for authenticating hosts connected to a port. By authenticating based on the host's source MAC address, the host is not required to run a user for the 802.1x protocol. The

RADIUS server that performs the authentication will inform the switch if this MAC can be registered in the MAC address table of switch.

Editable configuration file; USB port for upload/download

The configuration file of FBLINK I(P)GS-L5408MGSFP can be exported and edited with word processor for the following Ethernet switches to configure with ease.

The USB port can upload/download the configuration from/to USB dongle.

Event log & message; 2 DI + 2 DO; Factory default pin

I(P)GS-L5408MGSFP 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 outside alarm and switch will send alert information to IP network with email and traps.

The factory reset pin can restore the setting back to factory default.

Enhanced environmental monitoring for switch inside information

The enhanced environmental monitoring can detect switch overall temperature, total power load, actual input voltage and current it also can send the SNMP traps alert when abnormal.

Dual power 24V/48V input with max budget

The Lantech IPGS-L5408MGSFP is designed with dual power supply at 44~56VDC (48V model) or 12V~56VDC input (24V model). The 48V model can have 240W PoE budget while 24V model can have 120W (24V input) budget. The Lantech IGS-L5408MGSFP is designed with dual power supply at 12V~56VDC input (24V model).

A voltage which can be minimal 0,5 Un nominal voltage (when Vin≥36V) and/or a voltage which can be maximal 1.5 Un nominal voltage for more than 1000 consecutive ms (one second).

Industrial hardened design with high EFT and ESD

FBLINK I(P)GS-L5408MGSFP 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-L5408MGSFP being able to connect with alarm system in case of power failure or port disconnection.

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

FEATURES & BENEFITS

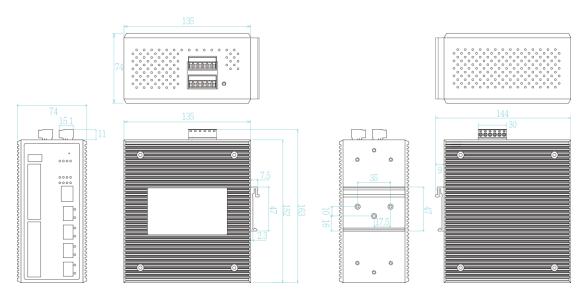
- 8 10/100/1000T + 4 1G/2.5G SFP
- PoE -PBT model: w/8 802.3at/af/bt PoE ports to feed power up to 60W for active mode operation
- PoE model: w/8 802.3at/af PoE ports to feed power up to 30W for active mode operation
- PoE model: 48V input for PoE budget 240W; 24V input for PoE budget 120W
- PoE model: PoE management including PoE detection and scheduling for PD (power devices)
- Galvanic isolation from power input/Ethernet ports to system 1.5KV
- Back-plane (Switching Fabric): 36Gbps
- 16K MAC address table
- 10KB Jumbo frame
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms for single ring
 - Support various ring/chain topologies, including enhanced ring and basic ring,
 - Enhanced G.8032 ring configuration with ease
 - Cover multicast and data packets protection
- 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, QinQ,
 QoS
- Subnet VLAN and protocol VLAN
- 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 Snooping, DHCP Option 66; basic IPv6 DHCP server.
- Mac based DHCP server to assign IP address that includes dumb Ethernet switches in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress* rate limit
 - Broadcast/multicast packet filter control

- 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** alert and SNMP Trap for alarm support
- 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 multi media
- Dual image firmware support
- MLD Snooping for IPv6 Multicast stream
- Factory reset button to restore setting to factory default
- Enhanced environmental monitoring for system actual input voltage, current, ambient temperature, and total power load
- Supports 2DI/2DO (Digital Input/Digital Output)
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
 - USB port for upload/download configuration file
- TFTP/HTTP firmware upgrade
- Diagnostic including Ping / ARP table / DDM information
- Enhanced Storm Control
- Optional L3Lite/L3* to be upgradable
- IP30 metal housing with DIN rail and Wall-mount** design

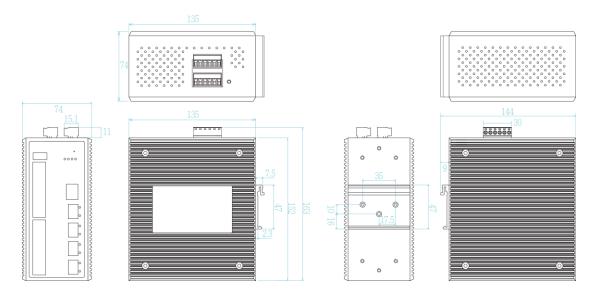


DIMENSIONS (unit=mm)

IPGS-L5408MGSFP



IGS-L5408MGSFP



SPECIFICATION

Hardware Specification		
Standards	IEEE802.3 10Base-T Ethernet	
	IEEE802.3u 100Base-TX	
	IEEE802.3ab 1000Base-T	
	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	
	IEEE802.3bt Power over Ethernet (PoE -PBT	
	model)	
Switch	Back-plane (Switching Fabric): 36Gbps	

Architecture	
Mac Address	16K MAC address table
Jumbo frame	10KB
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Mini-GBIC: 4 x 1G/2.5G SFP socket with DDMI RS-232 connector: RJ-45 type USB x 1 Power & Relay connector: 1 x 6-pole terminal block
Network Cable	DIDO: 1 x 6-pole terminal block 100Base-TX: 2-pair STP Cat. 5/ 5E/ 6 cable; EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair STP Cat5E/6 cable; 10GBaseT:4-pair STP Cat6/6A/7 cable
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

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DIOO 2 Digital (nput (DI): Level 01:30-30-7/ Level 1:10-30V Max. input current:8mA 2 Digital Cupt (POE): Copen collector to 40 VDC, 200mA POE Budget (POE mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 24V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V input: 60V at 12V input (24V mode) 120/W at 12V		1G/2.5G fiber: Link/Act (Orange)		
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Max. input current.8nh 2 Digital Output (OO): Open collector to 40 VDC, 200nh 2 Digital Output (OO): Open collector to 40 VDC, 200nh 2 Add W for 44.59V input (49V model) 120W at 24V input, 60W at 12V input (24V model) Maximum current. 5A Higher Pice budget can be applied upon request. ** PicE pin R, 245 port 8 1-88 support IEEE 802.3at/alf End-applied point, Alternative A mode. (PBT model) Positive (VCC-): R, 145 pin 1.2. Negative (VCC-): R, 145 pin 3.6. Operating 1-40°C-5°C /- 40°F-140°F (Standard model) Interperature - 40°C-5°C /- 40°F-140°F (Emodel) Power Supply Dual DC input, 12-56VDC (24V model) Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Control (VCC-): R, 145 pin 3.6. Power Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-): R, 145 pin 3.6. Power Ago Ago Control (VCC-):	DI/DO	2 Digital Input (DI):		, 0,
2 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). Open collector to 40 VDC, 20 Digital Output (POE). PLA-56 VDC, PLA		Level 0: -30~2V / Level 1: 10~30V		
PAGE Burglet (PCE model) POP FD FB Wilder (PCE model) 120W at 24V input, 60W at 12V input (24V model) Maximum current. 5A Higher PCE budget can be applied upon request. " POE pn R, 14-5 port 8 1-x8 support IEEE 802.3at/ai/bit End- point, Alternative A mode. (PBT model) Positive (VCC+): R, 14-5 pin 3.6. Operating Positive (VCC+): R, 14-5 pin 3.6. Operating - 2-0°C-60°C / -40°F-140°F (Standard model) Foregrature - 4-0°C-75°C / -40°F-140°F (Emodel) Foregrature - 4-0°C-75°C / -40°F-150°F (Emodel) Foregrature - 4-0°C-75°C / -40°F-150°F (Emodel) Foregrature - 40°C-75°C / -40°F-150°F (LACP Port Trunk: 8 Trunk groups
Jacobs (Pote mode) 240W for 44-56V input (48V mode) 120W at 24V input, 69W at 12V input (24V mode) 120W at 24V input, 69W at 12V input (24V mode) 120W at 24V input, 69W at 12V input (24V mode) 120W at 24V input, 69W at 12V input (24V mode) 120W at 24V input, 69W at 12V input, 69W at 12W input, 69W at 12				Supports LLDD to allow switch to a his air
CDP Cisco Discovery Protocol for topology mapping provides with a special poly of the special property of the special prop			-LLDP	
## POE pin ## Author port 1 = 1 = 8 support IEEE 802 ast/al End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/al End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/al End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/al End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit End- point, Alternative A mode. ## RJ-45 port # 1 = 8 support IEEE 802 ast/arbit Into 1 to 4096) ## Storage ## ADC-=85°C / AOF*-140°F- ISE port 1 ast/arbit Into 1 to 4096) ## Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## Double Storage ## ADC-=85°C / AOF*-140°F- ISE mode) ## ADC-=85°C / AOF*-140°F- ISE mode) ## ADC-=85°C		240W for 44~56V input (48V model)	CDB	i i
## Menitoring antibert temperature, and total power load to be shown in GUI and sent altering if any abnormal status assignment (PoE model) ## PoE pin R,J-45 port # 1-#8 support IEEE 802.3a/af End-point, Alternative A mode. PoT model ## PoE pin R,J-45 port # 1-#8 support IEEE 802.3a/af End-point, Alternative A mode. PoT model ## Positive (VCO-): R,J-45 pin 3.6. ## Operating S% - 95% (Non-condensing) ## Umidity Pop Pauling 20°C-80°C / 40°F-140°F (Standard model) ## Power Pow	model)	120W at 24V input; 60W at 12V input (24V model)		
Higher PoE budget can be applied upon request. N RJ-45 port # 1-#8 support IEEE 802.34rd End- posit, Alternative A mode. RJ-45 port # 1-#8 support IEEE 802.34rd End- point, Alternative A mode. (-PBT mode) Positive (VCC+): RJ-45 pin 1.2 Negative (VCC-): RJ-45 pin 3.6 Operating - 5% - 95% (Non-condensing) Humidity Operating - 20°C-69°C -40°C-140°F (Standard mode) - 40°C-55°C -40°F-140°F (Standard mode) - 40°C-55°C -40°F-160°F (Standard mode) - 40°C		Maximum current: 5A		
sasignment (PoE point, Alternative A mode. (PBT model) point, Alternative A mode. (PBT model) Positive (VCC-): R1-45 pin 1.2. Negative (VCC-): R1-45 pin 3.6. Positive (VCC-): R1-45 pin 3.6.		Higher PoE budget can be applied upon request. **	Worldoning	
R.1-45 port # 1 -#8 support IEEE 802.3st/af/bt End-point, Alternative A mode. (PBT model) Positive (VCC-): R.1-45 pin 1.2 Negative (VCC-): R.1-45 pin 3.6. Operating S% = 95% (Non-condensing) Humidiy Humidiy Humidiy Humidiy -20°C-80°C -40°F-140°F (Standard model) Temperature -40°C-80°C -40°F-140°F (Standard model) Temperature -40°C-80°C -40°F-160°F (Emodel) Storage -40°C-80°C -40°F-160°F (Emodel) Temperature -40°C-80°C -40°F-160°C (EMODel) Temperature -40°C-80°C -40°F-160°C (EMODel) Temperature -40°C-80°C -40°F-160°C (EMODel) Temperature -40°C-80°C -40°C-160°C (EE800°C -40°C-160°C (EE800°C -40°C-160°C (EMODel) Temperature -40°C-80°C -40°C-160°C (EE800°C -40°C-160°	PoE pin	RJ-45 port # 1~#8 support IEEE 802.3at/af End-		
R.1-45 port # 1 -#8 support IEEE 802.3st/af/bt End-point, Alternative A mode. (PBT model) Positive (VCC-): R.1-45 pin 1.2 Negative (VCC-): R.1-45 pin 3.6. Operating S% = 95% (Non-condensing) Humidiy Humidiy Humidiy Humidiy -20°C-80°C -40°F-140°F (Standard model) Temperature -40°C-80°C -40°F-140°F (Standard model) Temperature -40°C-80°C -40°F-160°F (Emodel) Storage -40°C-80°C -40°F-160°F (Emodel) Temperature -40°C-80°C -40°F-160°C (EMODel) Temperature -40°C-80°C -40°F-160°C (EMODel) Temperature -40°C-80°C -40°F-160°C (EMODel) Temperature -40°C-80°C -40°C-160°C (EE800°C -40°C-160°C (EE800°C -40°C-160°C (EMODel) Temperature -40°C-80°C -40°C-160°C (EE800°C -40°C-160°	assignment (PoF	· · · · · · · · · · · · · · · · · · ·	VLAN	
Name				
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Negative (VCC)-, RJ-45 pin 3,6. Operating 5% – 95% (Non-condensing) Humidity 5% – 95% (Non-condensing) 6% – 95% (Non-condensing) 7% (GVRP, QinQ, QoS
Operating 5% - 95% (Non-condensing) Spanning Tree Supports IEEE802.1x Spanning Tree MST1				
Humidity Core-ation Core		• • • • • • • • • • • • • • • • • • • •		
Operating		5% ~ 95% (Non-condensing)	Spanning Tree	
Temperature 40°C-75°C / 40°F-185°F (Fe model) Storage 40°C-85°C / 40°F-185°F (Fe model) Temperature Dual DC input, 44-56VDC (48V model); Dual DC input, 42-56VDC (24V model) Power Max. 31.9W exclude PoE load Consumption Case Dimension Metal case. IP-30, Ty (W) x 135 (D) x 152 (H) mm Weight 909 Installation Wall Mount Design EMI & EMS EMI & EMS EN55032-2020 EN55032-2020 EN55035-2020 IEC 61000-4-2:2019 IEC 61000-4-2:2019 IEC 61000-4-2:2019 IEC 61000-4-2:2019 IEC 61000-4-2:2017 IEC 61000-4-2:2017 IEC 61000-4-2:2017 IEC 61000-4-2:2009 EN 55031-2016 BS EN55032-2020 BS EN55032-2020 BS EN55032-2020 BS EN55032-2020 BS EN55032-2020 BS EN55032-2020 BS EN55003-2020 BS EN5000-4-2:2017 BS EN	·			
Storage 40°C-85°C / 40°F-185°F Service Service Service Service Source			Overliber of Oversion	
DSCP		, ,	Quality of Service	
Power Supply		-40°C~85°C / -40°F~185°F		
Dual DC input, 12-56VDC (24V model) Power Max. 31.9W exclude PoE load Remote Admin Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Software Specification Remote Admin Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresse		Dual DC input 44 E6\/DC (48\/ model);	Class of Service	
Power Consumption Max. 31.9W exclude PoE load Remote Admin Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Support IEEE802.1X Authentication/RADIUS	rower Supply		01000 01 001 1100	
Consumption Case Dimension Metal case. IP-30, 74 (W) x 135 (D) x 152 (H) mm Weight 900g Installation Wall Mount Design EMI & EMS EMS ENS5032:2020 EN55035:2020 FCC IEC / EN 61000-6-2:2019 IEC 61000-4-2:2019 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2017 IEC 61000-4-2:2019 IEC 61000-4-2:2019 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2020 IEC 61000-4-3:2017 IEC 61000-4-3:2020 IEC 61000-4-3:2017 IEC 61000-4-2:2019 IEC 61000-4-3:2020 IEC 61000-4-3:2017 IEC 61000-4-8:2017 IEC 61000-4-8:2016 BS EN55033:2020 BS EN55033:2020 BS EN561000-4-3:2020 IS EN56303:2020 BS EN561000-4-3:2020 IS EN61000-4-3:2020 IS EN61000-4-3:2020 IS EN61000-4-3:2020 IS EN61000-4-3:2020 IS EN61000-4-3:2017 IS EN61000-4-8:2017 IS EN61000-4-8:2010 IS EN6100	Power		Damata Admin	
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Veight 900g Port Mirror Supports IEEE802.1X Authentication/RADIUS		Metal case, IP-30.		
Port Mirror Support 3 mirroring types: "RX, TX and Both packet"			Login Security	
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BS EN61000-4-2:2009 BS EN61000-4-3:2020 BS EN61000-4-3:2020 BS EN61000-4-4:2012 BS EN61000-4-5:2017 BS EN61000-4-5:2017 BS EN61000-4-6:2015 BS EN61000-4-8:2010 BS EN61000-4-8:2017 BS EN61000-4-8:2017 BS EN61000-4-8:2017 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2017 BS EN61000-4-8:2017 BS EN61000-4-8:2017 BS EN61000-4-8:2010 Bandwidth Control Bandwidth Control Bendwidth Control				static route; 1024 multicast groups; IGMP router
BS EN61000-4-3:2020 BS EN61000-4-4:2012 BS EN61000-4-6:2017 BS EN61000-4-6:2015 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 Safety EN IEC 62368-1 Stability Testing IEC60068-2-32 (Free fall), IEC60068-2-6 (Vibration) IEC60068-2-6 (Vibration) IEC60068-2-6 (Vibration) MTBF 772,042 hrs (standards: IEC 62380) Warranty Software Specification MDD Snooping Support IPv6 Multicast stream Static multicast Static multicast forwarding forward reversed IGMP flow with multicast packet binding with ports for IP surveillance application 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/Flooded Unicast packet only and all types of packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet				port; IGMP query; GMRP
BS EN61000-4-4:2012 BS EN61000-4-5:2017 BS EN61000-4-5:2015 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 BS EN61000-4-8:2010 Bandwidth Control Stability Testing IEC60068-2-32 (Free fall), IEC60068-2-32 (Free fall), IEC60068-2-6 (Vibration) IEC60068-2-6 (Vibration) MTBF 772,042 hrs (standards: IEC 62380) Warranty 5 years Software Specification SNMP vt v2c, v3/ Web/Telnet/CLI			MLD Snooping	Support IPv6 Multicast stream
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IEC60068-2-6 (Vibration) Broadcast/Multicast/Flooded Unicast packet,	Stability Testing	, , , , , , , , , , , , , , , , , , , ,		
MTBF 772,042 hrs (standards: IEC 62380) Warranty 5 years Software Specification Management SNMP vt v2c v3/ Web/Telnet/CLL 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				
Warranty 5 years and all types of packet. Software Specification Management SNMP vt v2c v3/ Web/Telnet/CLL SNMP vt v2c v3/ Web/Telnet/CLL snmp vt v2c v3/ Web/Telnet/CLL	MEDE			·
Software Specification The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet		, ,		
Management SNMP vt v2c v3/ Weh/Telnet/CLI through the pull-down menu for the ingress packet				
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liner and the ediess inacker limit	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI		filter and the egress* packet limit.

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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	
Protection	Miss-wiring avoidance Node failure protection Loop protection	
SNMP Trap	Up to 5 trap stations; trap types including:	
PXE	PXE to verify switch firmware with the latest or certain version	
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP; DHCP Snooping, DHCP Option 66; Basic IPv6 DHCP server	
Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network	
DNS	Provide DNS client feature and can set Primary and	

	Secondary DNS server
SNTP	Supports NTP/SNTP to synchronize system clock in
	Internet
Firmware Update	Supports TFTP firmware update, TFTP backup and
	restore; HTTP firmware upgrade
Configuration	Supports editable configuration file for system quick
upload and	installation; Support factory reset button to restore
download	all settings back to factory default
Enhanced Storm	prevents traffic on a LAN from being disrupted by a
Control	broadcast, multicast, or unicast storm on one of the
	physical interfaces
Optional	FBLINK OS3 is optional upgradable to L3 Lite/L3*
L3Lite/L3*	for future expansion. The optional L3Lite includes
	editable routing table, VRRP, Router-on-a-stick,
	Inter- VLAN routing.
Diagnostic	Support Ping, ARP table and DDM information
Dual Image	Support dual image firmware function
Firmware	
	*Euturo rologgo

*Future release **Optional

ORDERING INFORMATION

IPGS-L5408MGSFP-48V-PBT......P/N: 8350-85701

8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt for 60W budget OS3 Managed Ethernet Switch; dual 44~56VDC input; -20°C to 60°C; IP30 housing

IPGS-L5408MGSFP-48V-PBT-E.....P/N: 8350-85711

8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt for 60W budget OS3 Managed Ethernet Switch; dual 44~56VDC input; -40°C to 75°C: IP30 housing

■ IPGS-L5408MGSFP-24V-PBT......P/N: 8350-85722

 $8\ 10/100/1000T + 4\ 1G/2.5G\ SFP\ w/8\ PoE\ 802.3\ af/at\ OS3\ Managed\ Ethernet\ Switch;\ dual\ 12~56VDC\ input;\ -20°C\ to\ 60°C;\ IP30\ housing$

■ IPGS-L5408MGSFP-24V-PBT-E.....P/N: 8350-85732

 $8\ 10/100/1000T + 4\ 1G/2.5G\ SFP\ w/8\ PoE\ 802.3\ af/at\ OS3\ Managed\ Ethernet\ Switch;\ dual\ 12~56VDC\ input;\ -40°C\ to\ 75°C;\ IP30\ housing$

IPGS-L5408MGSFP-48V......P/N: 8350-857

8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 44~56VDC input; -20°C to 60°C; IP30 housing

■ IPGS-L5408MGSFP-48V-E......P/N: 8350-8571

8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 44~56VDC input; -40°C to 75°C; IP30 housing

■ IPGS-L5408MGSFP-24V......P/N: 8350-8572

8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 12~56VDC input; -20°C to 60°C; IP30 housing

■ IPGS-L5408MGSFP-24V-E......P/N: 8350-8573

 $8\ 10/100/1000T + 4\ 1G/2.5G\ SFP\ w/8\ PoE\ 802.3\ af/at\ OS3\ Managed\ Ethernet\ Switch;\ dual\ 12~56VDC\ input;\ -40°C\ to\ 75°C;\ IP30\ housing$

■ IGS-L5408MGSFP-24V......P/N: 8361-5422

 $8\ 10/100/1000T + 4\ 1G/2.5G\ SFP\ OS3\ Managed\ Ethernet\ Switch;\ dual\ 12V\sim56V\ input;\ -20^{\circ}C\ to\ 60^{\circ}C;\ IP30\ housing$

■ IGS-L5408MGSFP-24V-E......P/N: 8361-5423

8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 12V~56V input; -40°C to 75°C; IP30 housing

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 incl. L3L (please check Lantech software data sheet for details)

48~54VDC DIN Rail Power for 802.3at Applications

■ 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)

Mini GBIC (SFP)

8330-162-V1	MINI GBIC 1000SX (LC/0.5km) Transceiver	8330-187-V1	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-163-V1	MINI GBIC 1000SX2 (LC/2km) Transceiver	8330-180-V1	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-165-V1	MINI GBIC 1000LX (LC/10km) Transceiver	8330-182-V1	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8340-0591-V1	MINI GBIC 1000LHX (LC/40km) Transceiver	8330-181-V1	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-166-V1	MINI GBIC 1000XD (LC/50km) Transceiver	8330-183-V1	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-169-V1	MINI GBIC 1000XD (LC/60km) Transceiver	8330-184-V1	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-167-V1	MINI GBIC 1000ZX (LC/80km) Transceiver	8330-185-V1	LTSFP-1000BX-80KM Transceiver (WDM 1550)
8330-170-V1	MINI GBIC 1000EZX (120km) Transceiver	8330-262D-V1	MINI GBIC 2.5G 850nm VCSEL (LC/0.3km)
8330-168-V1	MINI GBIC 1000T (100m) Transceiver	Transceiver	
8330-188-V1	LTSFP-1000BX-10KM Transceiver (WDM 1310)	8330-263D-V1	MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver
8330-189-V1	LTSFP-1000BX-10KM Transceiver (WDM 1550)	8330-265D-V1	MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver
8330-186-V1	LTSFP-1000BX-20KM Transceiver (WDM 1310)		

All SFP ended with D are with Diagnostic function

FBLINK Communications Global Inc.

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