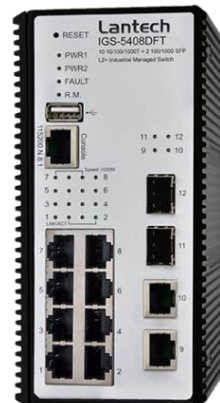


IGS-5408DFT-PT

2 10/100/1000T + 2 100/1000 SFP + 8 10/100/1000T IEC-61850-3 Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring & MMS

- Compliant with IEC61850-3 & IEEE1613
- Built-in MMS server based on IEC61850-90-4 switch data modeling for SCADA with monitoring and control
- 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
- 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; DHCP Snooping, Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+**, QinQ
- Protocol based VLAN ; IPv4 Subnet based VLAN
- Environmental Monitoring for temp, voltage and current
- Wide range dual DC input from 36V~72V with galvanic isolation
- USB port to backup, restore the configuration file and upgrade firmware (-U model)
- EN50121-4/50121-5 verification



OVERVIEW

Lantech IGS-5408DFT-PT is a high performance L2+ (Gigabit uplink) switch with 8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP that complies with IEC 61850-3 & IEEE 1613. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports train ring, enhanced mode, multiple VLAN model. The comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+**, SSH v2/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ are supported and also required in large network.

The built-in MMS server allows SCADA to control & monitor switch for data modeling.

Built-in MMS server for IEC61850 data modeling for monitoring and control

The built-in MMS (Manufacturing Messaging Specification) server can help SCADA to monitor and control switch by data modeling. It covers system, power, port status, environmental monitoring, network configuration.

Miss-wiring avoidance, Loop protection, Node failure protection

The IGS-5408DFT-PT 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 IGS-5408DFT-PT 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. This feature prevents the broken ring and keep ring alive without any re-configuration needed. 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; MRP ring

Lantech IGS-5408DFT-PT 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 RSTP over VLAN for redundant links with 16 MSTI.

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

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. 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.

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 and GVRP supported

It supports the QinQ, QoS and GVRP 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, 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.

Auto-provisioning for firmware/configuration update

The switch supports auto-provisioning for switch to auto-check the latest software image and configuration through TFTP server.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-5408DFT-PT much easier to get hands-on. The IGS-5408DFT-PT 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; USB port for configuration

upload & download

The configuration file of Lantech IGS-5408DFT-PT 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.

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

Event log & message; 2 DI / 2 DO

In case of event, the IGS-5408DFT-PT is able to send an email to pre-defined addresses as well as SNMP Traps our immediately. It provides 2 DI and 2 DO. 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.

Environmental monitoring for switch inside information

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

Wide range dual DC powered input with galvanic isolation; Relay contact alarm

The Lantech IGS-5408DFT-PT is designed with wide range dual power input from 18V~72VDC with galvanic isolation. Featured with relay contact alarm function, the IGS-5408DFT-PT is able to connect with alarm system in case of power failure or port disconnection. The IGS-5408DFT-PT also provides 4kV EFT, ±4kV Surge and ±15kV ESD air protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IGS-5408DFT-PT 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. It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

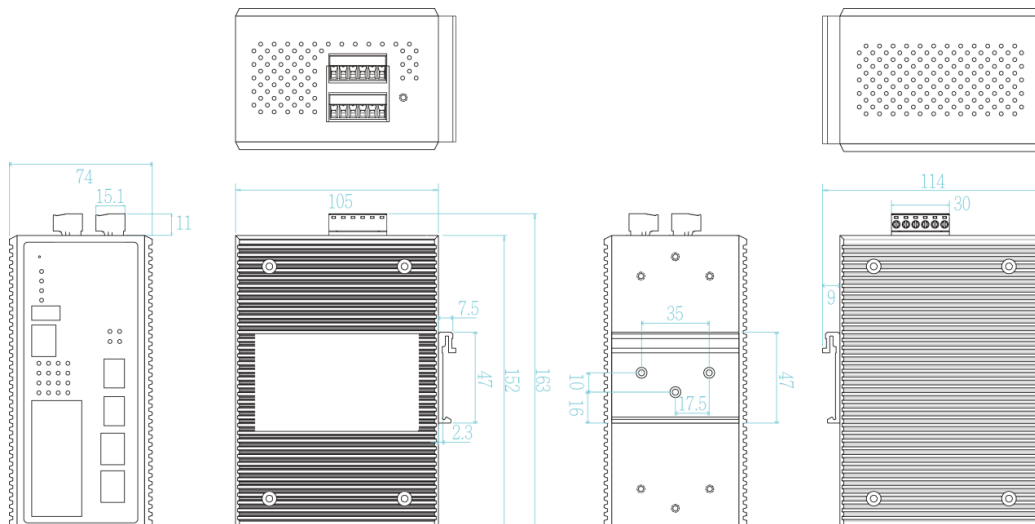
FEATURES & BENEFITS

- | | |
|--|--|
| <ul style="list-style-type: none"> ■ 8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP (Total 12 Ports Switch) ■ Back-plane (Switching Fabric): 24Gbps ■ 16K MAC address table ■ Built-in MMS server for SCADA data-modeling with control and monitoring ■ System info <ul style="list-style-type: none"> · Environmental monitoring · Power · Device event report · Port status · Port statistic · Port event report · Firmware upgrade · Network configuration ■ DDM to support SFP diagnostic function*** <ul style="list-style-type: none"> · Automatically convert the raw data into dB | <p><i>values for TX power/RX power, making it easier to measure the fiber distance</i></p> <ul style="list-style-type: none"> ■ 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 <ul style="list-style-type: none"> · 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 4kV EFT protection ■ Provides ±8kV (Contact) and ±15kV (Air) ESD protection |
|--|--|

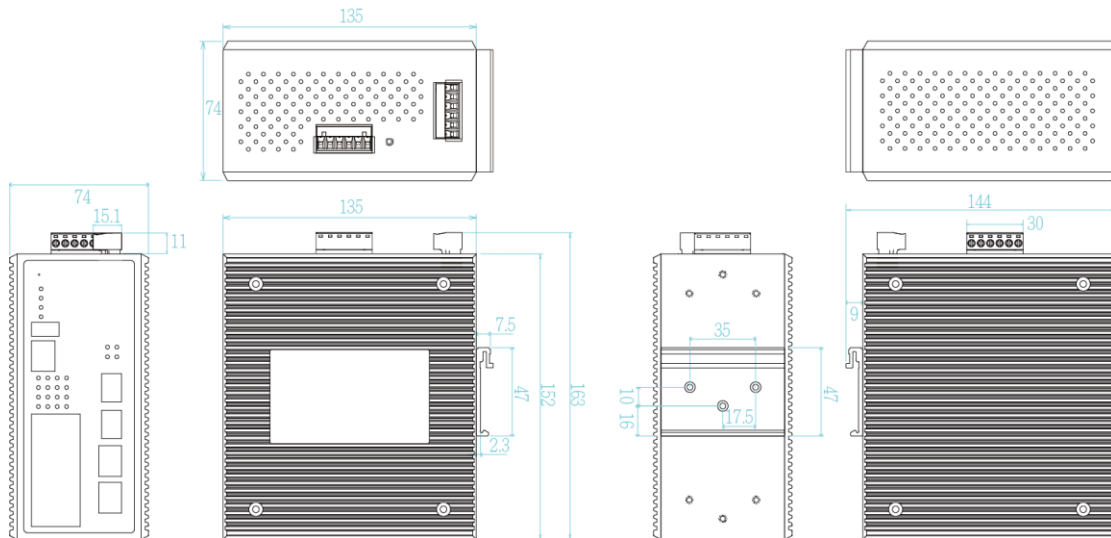
- Provides ±4kV Surge protection
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP VLAN redundancy with with 16 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ, QoS
- Supports 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; basic IPv6 DHCP server
- Mac based DHCP server to assign IP address
- MLD Snooping for IPv6 Multicast stream
- 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
- TFTP/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 and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH v2/INGRESS/EGRESS ACL L2/L3
 - MAC address table: 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 36V to 72V with galvanic isolation
- Diagnostic including Ping / DDM information
- Environmental monitoring for system input voltage, current and ambient temperature.
- IP30 metal housing with DIN rail and Wall-mount** design
- Auto Provision to verify switch firmware with the latest or certain version

DIMENSIONS (unit=mm)

IGS-5408DFT-PT-DC



IGS-5408DFT-PT-HV



SPECIFICATION

Hardware Specification

| | |
|---------------------|--|
| Standards | IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T Ethernet IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag |
| Switch Architecture | Back-plane (Switching Fabric): 24Gbps |
| 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 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 (-U model) Power & Relay connector: 1 x 6-pole terminal block DIDO : 1 x 6-pole terminal block |
| Network Cable | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) |
| Optical Cable | 1.25Gbps: Multi mode: 0 to 550 m, 850 nm (50/125 |

µm); 0 to 2 km, 1310 nm (50/125 µm)
Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 µm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 µm)

125Mbps:

Multi mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 µm)

Single mode: 0 to 30 km, 1310 nm (62.5/125 µm)

WDM 1.25Gbps:

Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 µm); 0 to 80 km, 1490 nm (9/125 µm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 µm)

WDM 125Mbps:

Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 µm); 0 to 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 µm)

| | | | | | | | |
|-----------------------|--|-----------------------------|-------------|-----------|-------------------|----------------------------|-----------------------------|
| LED | Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red), RM(Green) Ethernet port: Link/Activity (Green), Speed (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 VDC, 200mA | | | | | | |
| Operating Humidity | 5% ~ 95% (Non-condensing) | | | | | | |
| Operating Temperature | -40°C~85°C / -40°F~185°F (Standard model) | | | | | | |
| Storage Temperature | -40°C~85°C / -40°F~185°F | | | | | | |
| Power Supply | 36 to 72 VDC with galvanic isolation | | | | | | |
| Power Consumption | 10W | | | | | | |
| Case Dimension | Metal case, IP-30, DC model: 74 (W) x 105 (D) x 152 (H) mm HV model: 74 (W) x 135 (D) x 152 (H) mm | | | | | | |
| Weight | 900 g | | | | | | |
| Installation | DIN Rail and Wall Mount** Design | | | | | | |
| EMI & EMS | FCC Class A, CE EN55032 Class A, CE EN55024, <table border="1"> <tr> <td></td> <td>IEC 61850-3</td> <td>IEEE 1613</td> </tr> <tr> <td>IEC 61000-4-2 ESD</td> <td>Contact: ±6 kV; Air: ±8 kV</td> <td>Contact: ±8 kV; Air: ±15 kV</td> </tr> </table> | | IEC 61850-3 | IEEE 1613 | IEC 61000-4-2 ESD | Contact: ±6 kV; Air: ±8 kV | Contact: ±8 kV; Air: ±15 kV |
| | IEC 61850-3 | IEEE 1613 | | | | | |
| IEC 61000-4-2 ESD | Contact: ±6 kV; Air: ±8 kV | Contact: ±8 kV; Air: ±15 kV | | | | | |

| | | | |
|-------------------------------|---|---|------------------------|
| | IEC 61000-4-3 RS | 80 to 3000 MHz: 10 V/m | 80 to 1000 MHz: 20 V/m |
| | IEC 61000-4-4 EFT | 220VAC: Power: 4 kV; Signal: 4 kV 48VDC: Power: 4 kV | |
| | IEC 61000-4-5 Surge | DC power: Line to line: ±1 kV; Line to earth: ±2 kV AC power: Line to line: ±2 kV; Line to earth: ±4 kV Signal: Line to line: ±2 kV; Line to earth: ±4 kV | |
| | IEC 61000-4-6 CS | 220VAC: Power: 10V; Signal: 10V 48VDC: Power: 10V | |
| | IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs CE EN61000-6-2 | | |
| Stability Testing | IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-64 (Vibration) | | |
| Railway compliance | EN 50121-4 , EN 50121-5 | | |
| Substation Verification | IEC 61850-3 IEEE 1613 | | |
| MTBF | 830,589 hrs | | |
| Warranty | 5 years | | |
| Software Specification | | | |
| Management | SNMP v1 v2c, v3/ Web/Telnet/CLI | | |
| SNMP MIB | MIB MIBII SNMP MIB Bridge MIB IF MIB RMON MIB Private MIB | | |
| ITU G.8032 | Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring) Support various ring/chain topologies covering multi-cast and data packets Includes train ring & double ring 12 topologies etc Enhanced G.8032 ring configuration with ease Co-exist with RSTP on different ports | | |
| MMS Data Modeling | <ul style="list-style-type: none"> ■ System info ■ Environmental monitoring ■ Power ■ Device event report ■ Port status ■ Port statistic ■ Port event report ■ Firmware upgrade ■ Network configuration | | |
| 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 | | |
| Port Trunk with LACP | LACP Port Trunk: 8 Trunk groups/Maximum 8 trunk members | | |
| LLDP | Supports LLDP to allow switch to advise its identification and capability on the LAN | | |
| CDP | Cisco Discovery Protocol for topology mapping | | |
| Environmental Monitoring** | System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M model) | | |
| 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, Protocol based VLAN; IPv4 Subnet based VLAN | | |

| | |
|------------------------|--|
| RSTP/MSTP | Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree with 16 MSTI |
| Quality of Service | The quality of service determined by port / CoS / ToS / VLAN / 61375-3-4 |
| Class of Service | Support IEEE802.1p class of service, per port provides 8 priority queues |
| MLD Snooping | Support IPv6 Multicast stream |
| 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 Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface TACACS+** for Authentication MAC filter |
| IGMP | Support IGMP snooping v1,v2,v3; Supports IGMP static route; 256 multicast groups; IGMP router port ; IGMP query; GMRP, QinQ, QOS by VLAN |
| Static MAC-Port bridge | Static multicast forwarding forward reversed 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. |
| RTC | Built-in Real Time Clock to keep track of time always |
| 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(RFC3164) |
| Relay Alarm | Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V |
| Protection | <ul style="list-style-type: none"> ■ Miss-wiring avoidance ■ Node failure protection ■ Loop protection |
| SNMP Trap | Up to 10 trap stations; trap types including: <ul style="list-style-type: none"> ■ Device cold start ■ Authorization failure ■ Port link up/link down ■ DI/DO open/close ■ Topology change(ITU ring) ■ Power failure ■ Environmental abnormal** |
| 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 |
| DNS | Provide DNS client feature |
| Diagnostic | Support Ping and DDM information |
| SNTTP | Supports Dual NTP server to synchronize system clock in Internet |
| Firmware Update | Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade |

| | | | |
|--|---|------------------------------|--|
| <p>Configuration backup & restore</p> | <p>Supports text configuration file for system quick installation N-key** for mass firmware auto-backup, editable restoration and auto upgrade USB port to upload/download firmware by USB dongle</p> | <p>Auto Provision</p> | <p>To verify switch firmware with the latest or certain version</p> <p>*Future release **Optional ***Optional DDM SFP required</p> |
|--|---|------------------------------|--|

ORDERING INFORMATION

- **IGS-5408DFT-PT-DC.....P/N: 8350-8252**
2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T IEC61850-3 Managed Ethernet Switch
w/ USB slot, Enhanced Ring & MMS, environmental monitoring, w/ dual 36V~72VDC input; -40°C to 85°C
- **IGS-5408DFT-PT-HV.....P/N: 8350-8254**
2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T IEC61850-3 Managed Ethernet Switch w/ USB slot, Enhanced Ring & MMS, environmental monitoring, w/ One isolated 90~305VAC/120~430VDC power supply; -40°C to 85°C

OPTIONAL ACCESSORIES

DIN Rail Power for DC model

- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)
- **MDR-20 Series** 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC 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)

Mini GBIC (SFP)

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ 8330-162-V1 MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver ■ 8330-163-V1 MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver ■ 8330-165-V1 MINI GBIC 1000LX (LC/SM/10KM) Transceiver ■ 8340-0591-V1 MINI GBIC 1000LHX (LC/SM/40KM) Transceiver ■ 8330-166-V1 MINI GBIC 1000XD (LC/SM/50KM) Transceiver ■ 8330-169-V1 MINI GBIC 1000XD (LC/SM/60KM) Transceiver ■ 8330-167-V1 MINI GBIC 1000ZX (LC/SM/80KM) Transceiver ■ 8330-170-V1 MINI GBIC 1000EZ (LC/SM/120KM) Transceiver ■ 8330-168-V1 MINI GBIC 10/100/1000T (100m) Transceiver ■ 8330-060-V1 MINI GBIC 100Base (LC/MM/2KM) Transceiver ■ 8330-065-V1 MINI GBIC 100Base (LC/MM/5KM) Transceiver ■ 8330-061-V1 MINI GBIC 100Base (LC/SM/30KM) Transceiver ■ 8330-197-V1 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) ■ 8330-198-V1 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) ■ 8330-195-V1 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310) ■ 8330-196-V1 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550) ■ 8330-188-V1 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310) ■ 8330-189-V1 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550) ■ 8330-186-V1 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310) | <ul style="list-style-type: none"> ■ 8330-187-V1 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550) ■ 8330-180-V1 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310) ■ 8330-182-V1 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550) ■ 8330-181-V1 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310) ■ 8330-183-V1 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550) ■ 8330-184-V1 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490) ■ 8330-185-V1 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550) ■ 8330-071-V1 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver ■ 8330-072-V1 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver ■ 8330-069-V1 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver ■ 8330-068-V1 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver ■ 8330-080-V1 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver ■ 8330-082-V1 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver ■ 8330-081-V1 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver ■ 8330-083-V1 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver ■ 8330-084-V1 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver ■ 8330-085-V1 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver ■ 8330-191-V1 Dual Speed SFP 100M/1000M-LX 10KM Transceiver <p>All SFP# ended with D are with DDM function</p> |
|--|---|

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
- MBAK19004** 19" Rack Mounting Kit for 74x105x152mm/74x135x152mm Industrial Switch

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