



2 10/100/1000T + 2 100/1000 SFP + 8 10/100/1000T 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
- 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





USB model

- by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+**, QinQ
- Protocol based VLAN; IPv4 Subnet based VLAN
- Optional Environmental Monitoring** for temp., voltage and current.**(-M model)
- 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.

Miss-wiring avoidance, Node failure protection, Loop

The IGS-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 misswiring, Lantech IGS-5408DFT 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 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 TETP 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 seamentation.

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 much easier to get handson. The IGS-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 IGS-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 (-U model)

The built-in USB port can have configuration upload & download by USB dongle. (-U model)

Event log & message; 2 DI / 2DO

In case of event, the IGS-5408DFT is able to send an email to pre-defined addresses as well as SNMP Traps out immediately. It provides 2DI and 2DO when disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors for events and DO will trigger the alarm while sending alert information to IP network with email and traps.

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

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

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

The Lantech IGS-5408DFT is designed with wide range dual power input from 36V~72VDC with galvanic isolation. Featured with relay contact alarm function, the IGS-5408DFT is able to connect with alarm system in case of power failure or port disconnection. The IGS-5408DFT also provides ±2000V EFT and ±4000 VDC (Contact) / ±8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IGS-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

FEATURES & BENEFITS

- 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
- 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 VI AN 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)



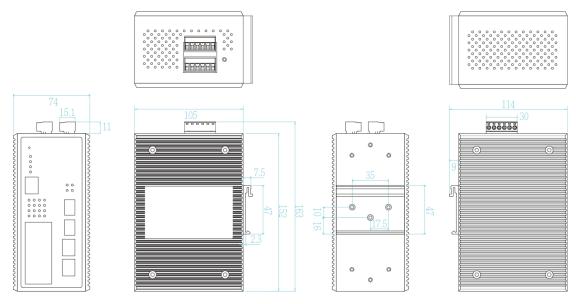
- **Ethernet ESD protection**
- Built-in RTC (Real Time Clock) to keep track of time
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP
 VLAN redundancy with with 16 MSTI
- 4K 802.1Q 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 Option 66; DHCP Snooping; basic IPv6 DHCP server
- Mac based DHCP server to assign IP address
- 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 donale
- System Event Log and SNMP Trap for alarm support; 32 RMON counters

Security

- SSL/SSH v2/INGRESS/EGRESS ACL L2/L3
- TACACS+**
- MAC address table: MAC address entries/Filter/MAC-Port binding
- IP Security: IP address security management to prevent unauthorized intruder.
- Management access control with priority
- 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
- MLD Snooping for IPv6 Multicast stream
- Diagnostic including Ping / DDM information
- Optional environmental monitoring for system input voltage, current, ambient temperature
- Environmental monitoring** for system input voltage, current and ambient temperature (-M model)
- IP30 metal housing with DIN rail and Wall-mount** design
- Auto Provision to verify switch firmware with the latest or certain version

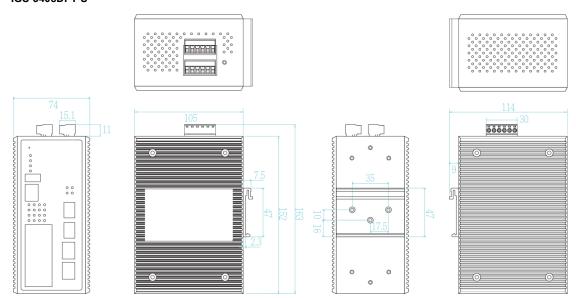
DIMENSIONS (unit=mm)

IGS-5408DFT





IGS-5408DFT-U



SPECIFICATION

Hardware Spec	rification		5E/ 6 cable
Standards	IEEE802.3 10Base-T Ethernet		EIA/TIA-568 100-ohm (100m)
Otandards	IEEE802.3u 100Base-TX	Optical Cable	1.25Gbps:
	IEEE802.3ab 1000Base-T Ethernet		Multi mode: 0 to 550 m, 850 nm (50/125
	IEEE802.3z Gigabit fiber		μm); 0 to 2 km, 1310 nm (50/125 μm)
	IEEE802.3x Flow Control and Back		Single mode: 0 to 10 km/ 30 km/ 40 km,
	Pressure		1310 nm (9/125 μm); 0 to 50 km/ 60 km/
	IEEE802.3ad Port trunk with LACP		80km/ 120 km, 1550 nm (9/125 μm)
	IEEE802.1d Spanning Tree		125Mbps:
	IEEE802.1w Rapid Spanning Tree		Multi mode: 0 to 2 km/ 5 km, 1310 nm
	IEEE802.1s Multiple Spanning Tree		(62.5/125 μm)
	IEEE802.3ad Link Aggregation Control		Single mode: 0 to 30 km, 1310 nm
	Protocol (LACP)		(62.5/125 μm)
	IEEE802.1AB Link Layer Discovery		WDM 1.25Gbps:
	Protocol (LLDP)		Single mode: 0 to 10 km/ 20 km/ 40 km/
	IEEE802.1X User Authentication (Radius)		60 km, 1310 nm (9/125 μm); 0 to 80 km,
	IEEE802.1p Class of Service		1490 nm (9/125 μm); 0 to 10 km/ 20 km/
	IEEE802.1Q VLAN Tag		40 km/ 60 km/ 80 km, 1550 nm (9/125
	IEEE1588 Precision Time Protocol v2		μm)
Switch Architecture	Back-plane (Switching Fabric): 24Gbps		WDM 125Mbps:
Transfer Rate	14,880pps for Ethernet port		Single mode: 0 to 20 km/ 40 km/ 60 km/
	148,800pps for Fast Ethernet port		80 km, 1310 nm (9/125 μm); 0 to 20 km/
	1,488,000pps for Gigabit Ethernet /		40 km/ 60 km/ 80 km, 1550 nm (9/125
	Gigabit Fiber port		μm)
Mac Address	16K MAC address table	LED	Per unit: Power 1 (Green), Power 2
Jumbo frame	10KB		(Green), FAULT (Red), RM(Green)
Connectors	10/100/1000T:10 x ports RJ-45 with Auto		Ethernet port: Link/Activity (Green),
	MDI/MDI-X function		Speed (Green); Mini-GBIC: Link/Activity
	Mini-GBIC: 2 x 100/1000 SFP socket with	DUDO	(Green)
	DDM	DI/DO	2 Digital Input (DI) : Level 0: -30~2V / Level 1: 10~30V
	RS-232 connector: RJ-45 type		
	USB x 1 (-U model)		Max. input current:8mA 2 Digital Output(DO): Open collector to 40
	Power & Relay connector: 1 x 6-pole		VDC, 200mA
	terminal block	Operating Humidity	5% ~ 95% (Non-condensing)
N / 1011	DIDO : 1 x 6-pole terminal block	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/	- Operating Temperature	model)
	5E/ 6 cable		-40°C~75°C / -40°F~167°F(-E model)
	EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/	Storage Temperature	-40°C~85°C / -40°F~185°F
	6 cable	Power Supply	36 to 72 VDC with galvanic isolation
	EIA/TIA-568 100-ohm (100m)	Power Consumption	10W
	1000Base-TX: 2-pair UTP/STP Cat. 5/	Case Dimension	Metal case. IP-30,
		Oasc Difficision	motal case. II -oo,



Weight		74 (W) x 105 (D) x 152 (H) mm
EMI & EMS FCC Class A, CE EN 55032, CE EN 55024, CE EN 61000-4-2, CE EN 61000-4-3, CE EN 61000-4-2, CE EN 61000-4-3, CE EN 61000-4-6, CE EN 61000-4-3, CE EN 61000-4-1, CE EN 61000-4-3, CE EN 61000-4-1, CE EN 61000-6-2 BS EN55032, BS EN55024, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-8, BS EN61000-4-6, BS EN61000-4-3, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-	Weight	
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CE EN 61000-4-2, CE EN 61000-4-3, CE EN 61000-4-5, CE EN 61000-4-6, CE EN 61000-4-5, CE EN 61000-4-6, CE EN 61000-4-2, BS EN61000-4-2, BS EN61000-4-2, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-3, BS EN61000-4-8,	EMI & EMS	
CE EN 61000-4-4, CE EN 61000-4-5,		
CE EN 61000-4-6, CE EN 61000-6-2 BS EN55032, BS EN55034, BS EN61000-4-11, CE EN 61000-6-2 BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-2, BS EN61000-4-5, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-5, BS EN61000-4-8, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-5, BS EN61000-4-8, BS E		
CE EN 61000-4-11, CE EN 61000-6-2 BS ENS5032, BS ENS5024, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-2, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-8 IEC 60068-2-32 (Free fall), IEC 60068-2-32 (Free fall), IEC 60068-2-32 (Free fall), IEC 60068-2-64 (Vibration) Railway compliance EN 50121-4, EN 50121-5 Safety EN 60950-1 IEC 60068-2-64 (Vibration) MTBF 830,589 hrs. (standards: IEC 62380) Warranty 5 years Software Specification Management SNMP v1 v2c, v3/ Web/Telnet/CLI SNMP MIB MIB ISNMP 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 Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced 6.8032 ring configuration with ease. Protect multicast & unicast data User friendly UI 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 Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping Environmental System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status (-M models) VLAN Port Based VLAN IEEE 802.10 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 IEEE 802.11 Spanning Tree and IEEE802.11 Swaltylipe Spanning Tree with 16 MSTI Quality of Service VLOS / Tos / VLAN / 61375-3-4 Class of Service Support IEEE802.1 pclass of service, per		
BS EN55032, BS EN55024, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-8 IEC 60068-2-247 (Free fall), IEC 60068-2-247 (Shock), IEC 60068-2-247 (Shock), IEC 60068-2-247 (Shock), IEC 60068-2-247 (Vibration) Railway compliance EN 50121-4, EN 50121-5 Safety EN 60950-1 IEC/BS EN IEC 62368-1 2020/A11:2020 MTBF 830,589 hrs. (standards: IEC 62380) Software Specification Management SNMP V1 v2c, v3/ Web/Telnet/CLI SNMP MIB MIBI 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 Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data User friendly UI I Auto topology drawing Topology drawing Topology draw Topology drawing		
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BS EN61000-4-6, BS EN61000-4-8 IEC 60068-2-23 (Free fall), IEC 60068-2-27 (Shock), IEC 60068-2-27 (Shock), IEC 60068-2-27 (Shock), IEC 60068-2-40 (Vibration) Railway compliance EN 50121-4 EN 50121-5 Safety EN 60950-1 IEC/BS EN IEC 62368-1 2020/A11:2020 MTBF 830,589 hrs. (standards: IEC 62380) Warranty 5 years Software Specification Management SNMP V1 V2c, v3/ Web/Telnet/CLI SNMP MIB MIBI SNMP MIB Bridge MIB IF MIB RMON MIB Private MIB SNMP V1 UG, v3/ Web/Telnet/CLI SNMP 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 Includes train ring, autor ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data User friendly UI Auto topology demo Auto configuration for G.8032(auto mode) for single ring DDM threshold monitoring with dB values*** Complete CLI for professional setting Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping Environmental Monitoring** Auto configuration for G.8032(auto mode) for single ring DDM threshold monitoring with dB values*** Complete CLI for professional setting Port Trunk with LACP LACP Port Trunk: 8 Trunk groups 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 models) VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP, QinQ, Protocol based VLAN ; IPv4 Subnet based VLAN IEEE 802.10 Rapaning Tree and IEEE 802.12 Wapid Spanning Tree with 16 MSTI Quality of Service The quality of service determined by port / Cos / Tos / VLAN / 61375-3-4 Class of Service		BS EN61000-4-2, BS EN61000-4-3,
Stability Testing IEC 60068-2-32 (Free fall), IEC 60068-2-27 (Shock), IEC 60068-2-27 (Shock), IEC 60068-2-27 (Shock), IEC 60068-2-64 (Vibration)		
IEC 60068-2-27 (Shock), IEC 60068-2-64 (Vibration) Railway compliance EN 50121-4, EN 50121-4, EN 60950-1 IEC/BS EN IEC 62368-1 2020/A11:2020 MTBF 830,589 hrs. (standards: IEC 62380) Varranty 5 years Software Specification Management SNMP v1 v2c, v3/ Web/Telnet/CLI SNMP MIB MIBI 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 Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data User friendly UI 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 Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping Environmental Monitoring** Auto and capability on the LAN IEEE 802.10 Tag VLAN (256 entries)/ VLAN Port Based VLAN IEEE 802.10 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 IEEE 802.10 Tag VLAN (256 entries)/ VLAN Jung of Service Figure 1 to 4096.) GVRP, QinQ, Protocol based VLAN ; IPV4 Subnet based VLAN IEEE 802.11 Rapid Spanning Tree and IEEE802.1 w Rapid Spanning Tree with 16 MSTI Quality of Service Figure 2 (Support IEEE802.1 p class of service, per		· ·
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Class of Service Support IEEE802.1p class of service, per	Quality of Service	
	Class of Service	

MLD Snooping	Support IPv6 Multicast stream		
Login Security	Supports IEEE802.1X Authentication/RADIUS		
Port Mirror	Support 3 mirroring types: "RX, TX and		
Network Security	Both packet" Support 10 IP addresses that have		
Network Security	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 v2 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 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		
Relay Alarm	Provides one relay output for port		
	breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @		
	DC24V		
Protection	Miss-wiring avoidance		
	Node failure protectionLoop 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 		
	Power failure Environmental abnormal**		
Diagnostic	Support Ping and DDM information		
DHCP	Provide DHCP Client/ DHCP		
	Server/DHCP Option 82/Port based DHCP; DHCP Option 66; DHCP		
	Snooping; basic IPv6 DHCP server		
Mac based DHCP	Assign IP address by Mac		
Server	Dravida DNC aliant for tree		
DNS SNTP	Provide DNS client feature Supports SNTP to synchronize system		
ONTE	Oupports ONTE to synchronize system		



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	clock in Internet
Firmware Update	Supports TFTP firmware update, TFTP
	backup and restore; HTTP firmware
	upgrade
Configuration backup &	Supports text configuration file for system
restore	quick installation
	USB port to upload/download firmware by

	USB dongle (-U model)	
Auto Provision	To verify switch firmware with the latest or	
	cortain varaion	

*Future release
**Optional
***Optional DDM SFP required

ORDERING INFORMATION

■ IGS-5408DFT......P/N: 8350-562

2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T L2 +Industrial Managed Ethernet Switch w/ dual 36V~72VDC input; - 20°C to 60°C

IGS-5408DFT-E......P/N: 8350-563

 $2\ 10/100/1000T + 2x100/1000\ SFP + 8\ 10/100/1000T\ L2 + Industrial\ Managed\ Ethernet\ Switch\ w/\ dual\ 36V - 72VDC\ input\ ; -40°C\ to\ 75°C$

■ IGS-5408DFT-M......P/N: 8350-564

 $2\ 10/100/1000T + 2x100/1000\ SFP + 8\ 10/100/1000T\ L2 + Industrial\ Managed\ Ethernet\ Switch\ w/environmental\ monitoring\ w/dual\ 36V~72VDC\ input\ ; -20°C\ to\ 60°C$

■ IGS-5408DFT-M-E......P/N: 8350-565

 $2\ 10/100/1000T + 2x100/1000\ SFP + 8\ 10/100/1000T\ L2 + Industrial\ Managed\ Ethernet\ Switch\ w/environmental\ monitoring\ w/dual\ 36V~72VDC\ input\ ; -40°C\ to\ 75°C$

■ IGS-5408DFT-U......P/N: 8350-566

 $2\ 10/100/1000T + 2x100/1000\ SFP + 8\ 10/100/1000T\ L2 + Industrial\ Managed\ Ethernet\ Switch\ w/USB\ slot\ \&\ dual\ 36V\sim72VDC\ input; -20°C\ to\ 60°C$

■ IGS-5408DFT-U-E......P/N: 8350-567

 $2\ 10/100/1000T+2x100/1000\ SFP+8\ 10/100/1000T\ L2+Industrial\ Managed\ Ethernet\ Switch\ w/USB\ slot\ \&\ dual\ 36V\sim72VDC\ input\ ;\ -40^{\circ}C\ to\ 75^{\circ}C$

■ IGS-5408DFT-U-M......P/N: 8350-568

 $2\ 10/100/1000T + 2x100/1000\ SFP + 8\ 10/100/1000T\ L2 + Industrial\ Managed\ Ethernet\ Switch\ w/USB\ slot,\ environmental\ monitoring\ \&\ dual\ 36V~72VDC\ input;\ -20°C\ to\ 60°C$

■ IGS-5408DFT-U-M-E......P/N: 8350-569

 $2\ 10/100/1000T + 2x100/1000\ SFP + 8\ 10/100/1000T\ L2 + Industrial\ Managed\ Ethernet\ Switch\ w/USB\ slot,\ environmental\ monitoring\ \&\ dual\ 36V~72VDC\ input\ ; -40°C\ to\ 75°C$

OPTIONAL ACCESSORIES

DIN Rail Power

■ 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)

8330-162-V1	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	8330-187-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
8330-163-V1	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	8330-180-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
8330-165-V1	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	8330-182-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
8340-0591-V1	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	8330-181-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
8330-166-V1	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	8330-183-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
8330-169-V1	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	8330-184-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
8330-167-V1	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	8330-185-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
8330-170-V1	MINI GBIC 1000EZX (LC/SM/120KM) Transceiver	8330-071-V1	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
8330-168-V1	MINI GBIC 10/100/1000T (100m) Transceiver	8330-072-V1	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
8330-060-V1	MINI GBIC 100Base (LC/MM/2KM) Transceiver	8330-069-V1	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
8330-065-V1	MINI GBIC 100Base (LC/MM/5KM) Transceiver	8330-068-V1	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
8330-061-V1	MINI GBIC 100Base (LC/SM/30KM) Transceiver	8330-080-V1	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
8330-197-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)	8330-082-V1	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
8330-198-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	8330-081-V1	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
8330-195-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	8330-083-V1	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
8330-196-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	8330-084-V1	125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
8330-188-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	8330-085-V1	125Mbps BiDi SFP 80KM (WDM 1550) Transceiver
8330-189-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)	8330-191-V1	Dual Speed SFP 100M/1000M-LX 10KM Transceiver
8330-186-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)	All SFP# ended	with 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 Ethernet switches

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

Lantech Communications Global Inc.

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