

IGS-5424-PT

24 10/100/1000T + 4 DualSpeed SFP IEC 61850-3

Managed Ethernet Switch w/ Enhanced Ring & MMS

- Compliant with IEC61850-3 & IEEE1613
- Support dual power redundancy AC&DC
- 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; 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, 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 & current
- USB slot for edited restoration and auto backup



OVERVIEW

Lantech IGS-5424-PT is a high performance L2+ (Gigabit uplink) switch with 24 10/100/1000T + 4 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-5424-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-5424-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-5424-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-5424-PT much easier to get hands-on. The IGS-5424-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-5424-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-5424-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 and email when abnormal.

Various dual power conversions redundancy; Relay contact alarm

Lantech IGS-5424-PT supports dual power redundancies with isolated 100~240VAC/120~370VDC power conversion and isolated 36~75VDC power conversion or with non-isolated 12~56VDC power module to increase the network reliability. Featured with relay contact alarm function, the IGS-5424-PT is able to connect with alarm system in case of power failure or port disconnection. The IGS-5424-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-5424-PT features high reliability and robustness coping with extensive EMI/RFI phenomenon, lighting surge, inductive load switching, high ESD, high fault current environment, 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, Semiconductor factory and assembly lines.

Lantech IGS-5424-PT can run under widely operational temperature (-40°C~75°C) in the harsh environment.

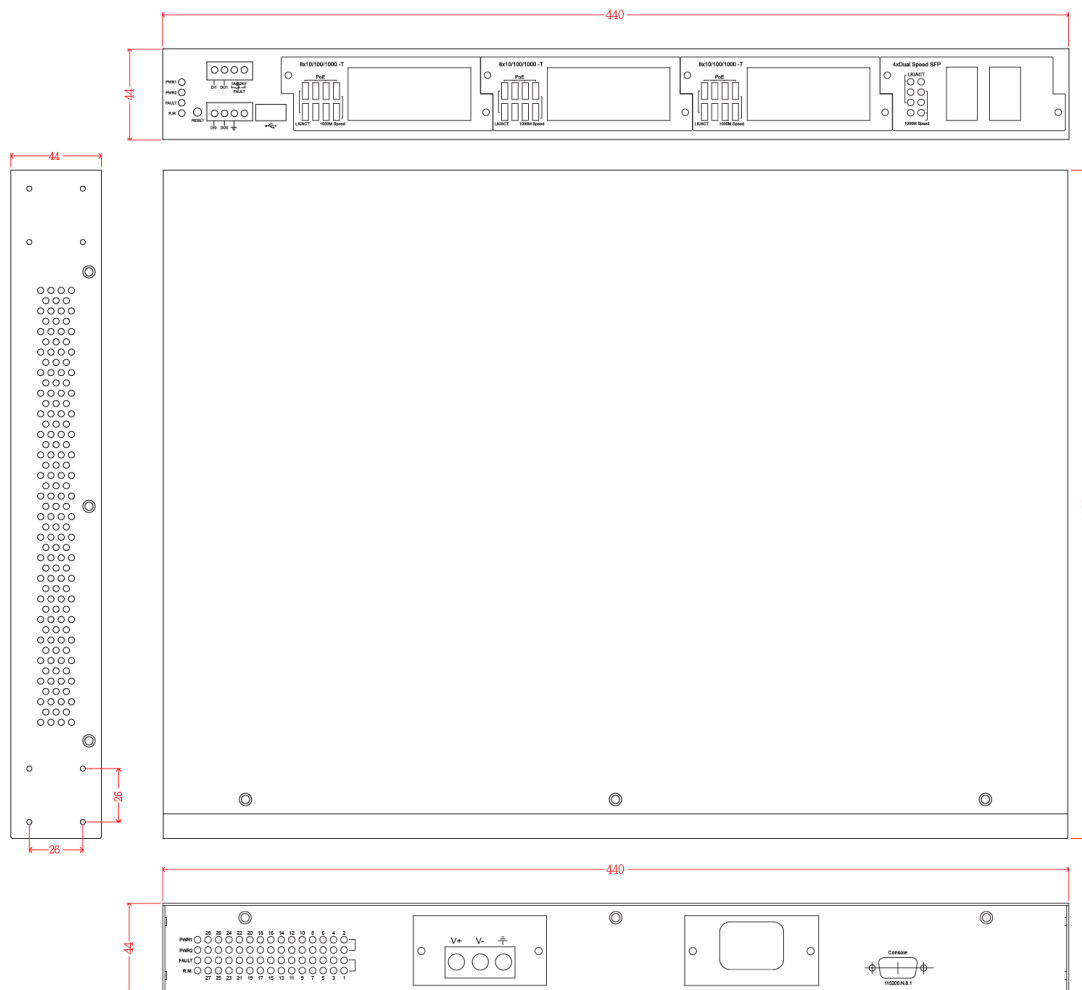
FEATURES & BENEFITS

- 24 10/100TX + 4 Dual Speed SFP
- (Total 28 Ports Switch)
- Back-plane (Switching Fabric): 56 Gbps
- 16K MAC address table
- Built-in MMS server for SCADA data-modeling with control and monitoring

- System info
- Power
- Device event report
- Port status
- Port statistic
- Port event report
- Firmware upgrade
- Network configuration

- 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
- 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
- Dual isolated power conversions for 1600V DC(36V~75V)
- Dual isolated power conversions for ±3000 V (100~240VAC/120~370VDC)
- Dual power supply terminal block for non-isolated power DC(12V~56V)
- 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, 802.1s MSTP VLAN redundancy with 16 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP, 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; DHCP Snooping, 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
- Diagnostic including Ping / DDM information
- Environmental monitoring for system input voltage, current, ambient temperature
- Supports DIDO (2 Digital Input / 2 Digital Output)
- 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)



SPECIFICATION

Hardware Specification		Architecture	
IEEE Standards	IEEE 802.3 10Base-T Ethernet	Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port
	IEEE 802.3u 100Base-TX Ethernet	MAC Address	16K MAC address table
	IEEE 802.3ab 1000Base-T Ethernet	Jumbo frame	10KB
	IEEE 802.3z Gigabit Fiber	Connectors	24 10/100/1000T RJ-45 with auto MDI/MDI-X function 4 100M / 1000M Mini-GBIC : SFP sockets RS-232 console: Female DB-9 USB for backup and restore
	IEEE 802.3x Flow Control Capability	LED	Per unit: Power 1 (Green), Power 2 (Green), Alarm (Red) ,R,M (Green) Link/Activity (Green), Full duplex/collision(Yellow)), MINI GBIC (Link/Activity)(Green)
	ANSI/IEEE 802.3 Auto-negotiation	Power Supply	AC model: 100~240VAC IEC320 conversion X1 DC model: 12~56VDC INPUT X1 DCI model: 36-75VDC INPUT X1 HV model: 100~240VAC, 120~370VDC conversion X1
	IEEE 802.1Q VLAN		
	IEEE 802.1p Class of Service		
	IEEE 802.1X Access Control		
	IEEE 802.1D Spanning Tree		
IEEE 802.1w Rapid Spanning Tree			
IEEE 802.1s Multiple Spanning Tree			
IEEE 802.3ad Link Aggregation Control Protocol (LACP)			
IEEE 802.1AB Link Layer Discovery Protocol (LLDP)			
IEEE 802.1x User Authentication (Radius)			
Switch	Back-plane (Switching Fabric): 56Gbps		

	Additional power socket (optional): <ul style="list-style-type: none"> ■ 100-240VAC, 120-370VDC ■ 36-75VDC ■ 100-240VAC IEC320 ■ 12-56VDC 		Enhanced G.8032 ring configuration with ease Co-exist with RSTP on different ports																		
Power Consumption	Full load: 30W/ Unload: 13W		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 																		
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V		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 																		
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		Port Trunk with LACP LACP Port Trunk: 8 Trunk groups/Maximum 8 trunk members																		
Case Dimension	19" Metal case, IP-30; 440mm(W)x325mm(D)x44mm(H)		LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN																		
Weight	2.9 kgs		CDP Cisco Discovery Protocol for topology mapping																		
Operating Humidity	5%~95% (Non-condensing)		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)																		
Operating Temperature	-40°C ~75°C		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																		
Storage Temperature	-40°C ~85°C		RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree with 16 MSTI																		
EMI & EMS	FCC Class A, CE EN55032 Class A, CE EN55024, <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>IEC 61850-3</th> <th>IEEE 1613</th> </tr> </thead> <tbody> <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> <tr> <td>IEC 61000-4-3 RS</td> <td>80 to 3000 MHz: 10 V/m</td> <td>80 to 1000 MHz: 20 V/m</td> </tr> <tr> <td>IEC 61000-4-4 EFT</td> <td colspan="2">220VAC: Power: 4 kV; Signal: 4 kV 48VDC: Power: 4 kV</td> </tr> <tr> <td>IEC 61000-4-5 Surge</td> <td colspan="2">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</td> </tr> <tr> <td>IEC 61000-4-6 CS</td> <td colspan="2">220VAC: Power: 10V; Signal: 10V 48VDC: Power: 10V</td> </tr> </tbody> </table> IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs CE EN61000-6-2 CE EN61000-6-4 CE EN61000-6-5		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			Quality of Service The quality of service determined by port / CoS / ToS / VLAN / 61375-3-4
	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																				
Stability Testing	IEC 60068-2-6: 2007 (Vibration) IEC 60068-2-27: 2008 (Shock)		Class of Service Support IEEE802.1p class of service, per port provides 8 priority queues																		
Safety	EN IEC 62368-1		MLD Snooping Support IPv6 Multicast stream																		
Railway verification	EN50121-4		Login Security Supports IEEE802.1X Authentication/RADIUS																		
MTBF	586,450hrs (standards: IEC 62830)		Port Mirror Support 3 mirroring types: "RX, TX and Both packet"																		
Power Automation	IEC 61850-3, IEEE 1613, IEC 60255-5		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																		
Warranty	5 years		IGMP Support IGMP snooping v1,v2,v3; Supports IGMP static route; 256 multicast groups; IGMP router port ; IGMP query; GMRP, QinQ, QOS by VLAN																		
Software Specification			Static MAC-Port bridge Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application																		
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI		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.																		
SNMP MIB	MIB MIBII SNMP MIB Bridge MIB IF MIB RMON MIB Private MIB		RTC Built-in Real Time Clock to keep track of time always																		
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		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 ■ Typology change(ITU ring) 																		

	<ul style="list-style-type: none"> Power failure Environmental abnormal** 	Configuration backup & restore	Supports text configuration file for system quick installation
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP; DHCP Snooping, DHCP Option 66; basic IPv6 DHCP server		N-key** for mass firmware auto-backup, editable restoration and auto upgrade
Mac based DHCP Server	Assign IP address by Mac		USB port to upload/download firmware by USB dongle
DNS	Provide DNS client feature	Auto Provision	To verify switch firmware with the latest or certain version
Diagnostic	Support Ping and DDM information		
SNTP	Supports Dual NTP server to synchronize system clock in Internet		
Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade		

*Future Release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

For optional power supply, add +DC, +DCI, +AC, or +HV to the part number.

- IGS-5424-PT-DC.....P/N: 8388-500**
 24 10/100/1000T + 4 Dual SFP IEC61850-3 Managed Ethernet Switch
 w/ USB slot, Enhanced Ring & MMS, Environmental Monitoring
 w/ One DC 12~56VDC power supply + 1x optional power socket; -40°C to 75°C
- IGS-5424-PT-HV.....P/N: 8388-501**
 24 10/100/1000T + 4 Dual SFP IEC61850-3 Managed Ethernet Switch
 w/ USB slot, Enhanced Ring & MMS, Environmental Monitoring
 w/ One isolated 100~240VAC /120~370VDC conversion + 1x optional power socket; -40°C to 75°C
- IGS-5424-PT-AC.....P/N: 8388-502**
 24 10/100/1000T + 4 Dual SFP IEC61850-3 Managed Ethernet Switch
 w/ USB slot, Enhanced Ring & MMS, Environmental Monitoring
 w/ One 100~240V AC IEC320 conversion + 1x optional power socket; -40°C to 75°C
- IGS-5424-PT-DCI.....P/N: 8388-503**
 24 10/100/1000T + 4 Dual SFP IEC61850-3 Managed Ethernet Switch
 w/ USB slot, Enhanced Ring & MMS, Environmental Monitoring
 w/ One isolated DC 36~75VDC power supply + 1x optional power socket; -40°C to 75°C

OPTIONAL ACCESSORIES

Power

EOTH000701

Isolation Power 100-240VAC, 120-370VDC 2.0A max, 47-63HZ



EOTH000702

Isolation Power 36-75VDC, 2.5A



EOTH000703

Isolation Power 100-240VAC IEC320 socket, 2.0A max, 47-63HZ



EOTH000704

Power Input Module 12-56VDC, 2.5A



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 1000EZ (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

Lantech Communications Global Inc.

www.lantechcom.tw
 info@lantechcom.tw

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 In a continuing effort to improve and advance technology, product specifications are subject to change without notice.