

IES-3424DSFP-2P

24 10/100TX + 4 DualSpeed SFP Industrial L2⁺ Switch

w/ Enhanced G.8032 Ring

 Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode, enhanced mode, train mode and



basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8/16* MSTI /RSTP

- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82 for Port/VLAN based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3
- Support relay contact DIDO for real time voltage, current and case ambient temperature
- Miss-wiring avoidance & Node failure protection
- User friendly UI, including auto topology drawing and DDM threshold with dB values***, Complete CLI supported
- USB slot for edited restoration and auto backup



OVERVIEW

Lantech IES-3424DSFP-2P is a high performance L2 + managed industrial switch which provides L2 wire speed and advanced security function for network aggregation and backbone deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms including train ring, enhanced mode for easy configuration, comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ (double tag VLAN) which are important features required in train and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and show on L2 map topology.

Lantech IES-3424DSFP-2P 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 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 VIan for redundant links with 8/16* MSTI.

The IES-3424DSFP-2P 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 IES-3424DSFP-2P is able to alert with the LED indicator and send out an email or traps. 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 when power 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 server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. For the ending device which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Optional basic IPv6 DHCP service can be supported.

The user friendly UI, innovative auto topology drawing and topology demo makes IES-3424DSFP-2P much easier to get hands-on. The IES-3424DSFP-2P 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 support allows professional setting.

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Industrial Managed Switches

Lantech IES-3424DSFP-2P configuration can be exported and editable which makes the mass deployment easier. Also, it designs with a factory reset button where user can reset all settings to factory default. The built-in watch dog design can reboot switch automatically when CPU is found dead. The USB slot allows user to backup/ restore configuration.

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.

The IES-3424DSFP-2P DIDO function can support additional open/close physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the switch was moved or stolen. In case of events, the IES-3424DSFP-2P will immediately send an email to pre-

defined addresses as well as SNMP Traps out. It provides 2DI and 2DO while disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors into the auto alarm system and transfer the alarm information to IP network with email, text and SNMP.

Lantech IES-3424DSFP-2P supports dual power inputs from DC9.5~60V, 85~265VAC or 100V~370VDC. It features high reliability and robustness withstanding extensive EMI/RFI phenomenon, lighting surge, inductive load switching, high ESD, high fault current environment usually found in Substation, Steel automation, Mining and Process control etc. Supporting the latest EEE (Efficient Energy Ethernet) standard, IES-3424DSFP-2P can run under widely operational temperature (-40°C~75°C) in the harsh environment.

FEATURES & BENEFITS

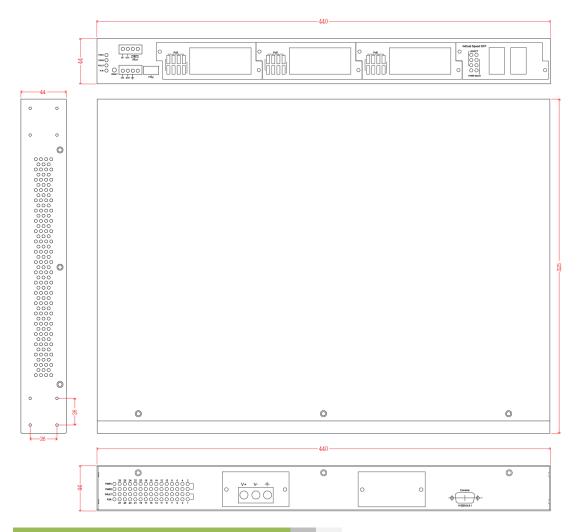
- System Interface/Performance
 - · 24x10/100TX + 4 100M/1000M SFP L2+
 - 16K MAC Address Table
 - Dual Power Supply Design for DC(9.5V~60VDC), AC(85V~265VAC) or 100V~370VDC
 - -40to 75C operation temperature(-E model)
- User friendly UI, Auto topology drawing, topology demo, Complete CLI for professional setting
- IPv6/v4 supported
- Enhanced G.8032 Ring protection in 20ms < 256 switches
 - Support various ring/chain topologies, including train ring
 - · Enhanced G.8032 ring configuration with ease
 - · Auto ring configuration (auto mode) for single ring
 - Ring covers multicast on different ports
- 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
- 256 groups MSTP over VLAN
- VLAN
 - 4K 802.1Q Vlan, Port Based VLAN, GVRP, QinQ
- Port Trunk with LACP 14 trunks with automatic link failover
- LACP link aggregation to add bandwidth
- QoS (Quality of Service)
 - Supports IEEE 802.1p CoS
 - · Per port provides 8 priority queues
 - · Port-base, Tag-base and TOS Priority
 - Strict priority and WRR
- Security
 - SSL/SSH/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.
 - Management access control with priority

- Login Security: IEEE802.1X/RADIUS
- HTTPS for secure access to the web interface
- Miss-wiring avoidance
 - Email or traps notification
- 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
- IGMP v1,v2,v3 and Proxy** for Multimedia Application; GMRP
- IGMP router to select another Query mode and support IGMP static routing for reversed IGMP flow to bind with port for IP surveillance application
- Supports IEEE802.1ab LLDP, Cisco CDP
- Basic DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server for Port/ Vlan based DHCP distribution; DHCP Option 66
- Mac based DHCP server to assign IP address that includes dumb switches in DHCP network
- Bandwidth Control
 - Ingress Packet Filter and Egress Rate Limit
 - Broadcast/Multicast Packet Filter Control
- System Event Log, Email alert and SNMP Trap for alarm support
- Environmental sensor built-in to detect temperature, voltage, current and send out SNMP traps and emails if there is abnormal events
- TFTP/HTTP firmware upgrade; USB for edited restoration and auto backup
- Reset / Factory default button to restore factory setting
- Watch dog design to reboot switch if CPU is found dead
- Provides EFT protection ±4K VDC for power line
- Supports ±8KV contact & ±15KV air Ethernet ESD protection
- 2 DI/DO and 1 relay contact alarm

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DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification		CPU	Marvell 800Mhz
IEEE Standards	IEEE 802.3 10Base-T Ethernet	RAM	256M Byte
	IEEE 802.3u 100Base-TX Ethernet	Flash	128M Byte
	IEEE 802.3z 1000Base-T Ethernet	MAC Address	16K MAC address table
	IEEE802.3z Gigabit fiber	Jumbo frame	10KB on all ports
	IEEE 802.3x Flow Control Capability	Connectors	24 10/100TX RJ-45 with auto MDI/MDI-X function
	ANSI/IEEE 802.3 Auto-negotiation		4 100M / 1000M Mini-GBIC : SFP sockets
	IEEE 802.10 VLAN		RS-232 console: Female DB-9
	IEEE 802.1p Class of Service		USB for automatic backup and restore
	IEEE 802.1X Access Control	DDM	Conform to SFF-8472 to show diagnostic SFP with
	IEEE 802.1D Spanning Tree		temperature, current, voltage, input and output power
	IEEE 802.1w Rapid Spanning Tree	Protocol	CSMA/CD
	IEEE 802.1s Multiple Spanning Tree	LED	Per unit: Power 1 (Green), Power 2 (Green), Alarm
	IEEE 802.3ad Link Aggregation Control Protocol		(Red) ,R.M (Green)
	(LACP)		Link/Activity (Green), Full duplex/collision(Yellow)),
	· · · /		MINI GBIC (Link/Activity)(Green)
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	Power Supply	Two power sockets,
	IEEE 802.1x User Authentication (Radius)	Power Suppry	9.5~60VDC input
Switch	Back-plane (Switching Fabric): 12.8Gbps		
Architecture			IEC320 85~265VAC conversion (-AC model)
Transfer Rate	14,880pps for Ethernet port		AC/DC 85~265VAC/100V~370VDC conversion (-HV
	148,800pps for Fast Ethernet port		model)
	1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Power	Full load: 30W/ Unload: 13W

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Industrial Managed Switches



Consumption			Code Points - DSCP
Relay Alarm	Provides one relay output for port breakdown, power	Class of Service	Support IEEE802.1p class of service, per port
	fail and alarm.		provides 8 priority queues
	Alarm Relay current carry ability: 1A @ DC24V	QoS by VLAN	Tagged QoS by VLAN for all devices in the network
DI/DO	2 Digital Input (DI) :	Port Security	Support 50 entries of MAC address for static MAC
	Level 0: -30~2V / Level 1: 10~30V		and another 50 for MAC filter
	Max. input current:8mA	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
	2 Digital Output(DO): Open collector to 40 VDC,	Multicast Filtering	Support IGMP snooping v1,v2,v3; Supports IGMP
	200mA	& IGMP	static route
RTC	RTC(Real Time Clock) to keep track of time always		IGMP query and router port
Factory reset	Factory reset button to restore back to factory default		1024 multicast groups and IGMP query
button & watch	settings. Watch dog design can reboot switch		GMRP
dog design	automatically when CPU is found dead	Static MAC-Port	Static multicast forwarding forward reversed IGMP
Case Dimension	19" Metal case,IP-30;	bridge	flow with multicast packets binding with ports for IP
	440mm(W)x325mm(D)x44mm(H)		surveillance application
Weight	2.9 kgs	Bandwidth	Support ingress packet filter and egress packet limit.
Operating	5%~95% (Non-condensing)	Control	The egress rate control supports all of packet type,
Humidity			the limit rates are 0~100Mbps.
Operating	Standard: -20°C ~60°C		Ingress filter packet type combination rules are
Temperature	Extended temperature : -40°C ~75°C		Broadcast/Multicast/Flooded Unicast packet,
Storage	-40°C ~85°C		Broadcast/Multicast packet, Broadcast packet only
Temperature			and all types of packet. The packet filter rate can be
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EET)		set from 0 to 100Mbps
	CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS),		The packet filter rate can be set an accurate value
	CE EN61000-4-8, CE EN55032 Class A, CE		through the pull-down menu for the ingress packet
	EN55024		filter and the egress packet limit.
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),	Network Security	Support 10 IP addresses that have permission to
	IEC60068-2-6 (Vibration), IEC60870-2-2, IEC60068-		access the switch management and to prevent
	2-30		unauthorized intruder.
	2-30		
MTBF	511,958 hours		802.1X access control for port based and MAC based
MTBF Warranty			authentication/MAC-Port binding
Warranty	511,958 hours 5 years		authentication/MAC-Port binding Management access control with priority
Warranty Software S	511,958 hours 5 years pecification		authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3
Warranty	511,958 hours 5 years		authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management
Warranty Software S Management	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management	Protection	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3
Warranty Software S Management	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB*,	Protection	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface
Warranty Software S Management	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB*, RFC 1493 Bridge MIB*,	Protection	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance
Warranty Software S Management	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB*, RFC 1493 Bridge MIB*, RFC 1573 IF MIB	Protection Flow Control	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection
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Warranty Software S Management SNMP MIB VLAN VLAN VLAN Port Trunk with LACP LLDP CDP	511,958 hours 5 years pecification SNMP v1 v2c, v3 /Web/Telnet/CLI Management RFC 1213 MIBII RFC 1153 SMMP MIB*, RFC 1157 SMMP MIB*, RFC 1157 SMMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping	Flow Control System Log SMTP SNMP Trap	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal
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Warranty Software S Management SNMP MIB VLAN VLAN VLAN Port Trunk with LACP LLDP CDP	511,958 hours 5 years pecification SNMP v1 v2c, v3 /Web/Telnet/CLI Management RFC 1213 MIBII RFC 1153 SMMP MIB*, RFC 1157 SMMP MIB*, RFC 1157 SMMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode)	Flow Control System Log SMTP SNMP Trap	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution
Warranty Software S Management SNMP MIB VLAN VLAN	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 12158 MIBII RFC 1157 SNMP MIB*, RFC 1493 Bridge MIB*, RFC 157 SIMP MIB*, RFC 157 SIMP MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies	Flow Control System Log SMTP SNMP Trap DHCP	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent)
Warranty Software S Management SNMP MIB VLAN VLAN VLAN Port Trunk with LACP LLDP CDP	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1493 Bridge MIB*, RFC 157 SIMP MIB*, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring	Flow Control System Log SMTP SNMP Trap DHCP Mac based	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb
Warranty Software S Management SNMP MIB VLAN VLAN VLAN CDP ITU G.8032	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1493 Bridge MIB*, RFC 157 SIMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring Enhanced G.8032 ring configuration with ease	Flow Control System Log SMTP SNMP Trap DHCP Mac based DHCP Server	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network
Warranty Software S Management SNMP MIB VLAN VLAN VLAN Port Trunk with LACP LLDP CDP	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1493 Bridge MIB*, RFC 157 SIMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring Enhanced G.8032 ring configuration with ease	Flow Control System Log SMTP SNMP Trap DHCP Mac based DHCP Server	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down Dl/DO open/close Typology change(ITU ring) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network Provide DNS client feature and support Primary and
Warranty Software S Management SNMP MIB VLAN VLAN VLAN CDP ITU G.8032	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1157 SNMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring Enhanced G.8032 ring configuration with ease Auto topology drawing with detail node info	Flow Control System Log SMTP SNMP Trap DHCP Mac based DHCP Server DNS	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network Provide DNS client feature and support Primary and Secondary DNS server.
Warranty Software S Management SNMP MIB VLAN VLAN VLAN CDP ITU G.8032 User friendly UI	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1157 SNMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring Enhanced G.8032 ring configuration with ease Auto topology drawing with detail node info DDM threshold with dB values**** Complete CLI for professional setting <	Flow Control System Log SMTP SNMP Trap DHCP Mac based DHCP Server DNS SNTP	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network Provide DNS client feature and support Primary and Secondary DNS server. Support SNTP to synchronize system clock in Internet
Warranty Software S Management SNMP MIB VLAN VLAN VLAN CDP ITU G.8032	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1157 SNMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring Enhanced G.8032 ring configuration with ease Auto topology drawing with detail node info DDM threshold with dB values***	Flow Control System Log SMTP SNMP Trap DHCP Mac based DHCP Server DNS SNTP Firmware Update	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network Provide DNS client feature and support Primary and Secondary DNS server. Support SNTP to synchronize system clock in Internet Support TFTP /HTTP firmware update
Warranty Software S Management SNMP MIB VLAN VLAN VLAN CDP ITU G.8032 User friendly UI	511,958 hours 5 years pecification SNMP v1 v2c, v3/ Web/Telnet/CLI Management RFC 1213 MIBII RFC 1213 MIBII RFC 1157 SNMP MIB*, RFC 1157 SNMP MIB*, RFC 157 SIMP MIB*, RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB* LLDP MIB* Private MIB Port based VLAN, up to 28 groups IEEE802.1Q Tag VLAN Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4096 GVRP up to 256 groups** Multicast VLAN registration*, QinQ LACP Port Trunk: 8 Trunk groups/Maximum 24 trunk members Support LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery protocol for topology mapping Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic mode) Support various ring/chain topologies Includes train ring Enhanced G.8032 ring configuration with ease Auto topology drawing with detail node info DDM threshold with dB values**** Complete CLI	Flow Control System Log SMTP SNMP Trap DHCP Mac based DHCP Server DNS SNTP Firmware Update Configuration	authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface Miss-wiring avoidance Node failure protection Loop protection Support Flow Control for Full-duplex and Back Pressure for Half-duplex Support System log record and remote system log server Support System log record and remote system log server Supports SMTP Server and 8 e-mail accounts for receiving event alert 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) PoE ping failure Power failure Environmental abnormal Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based & VLAN based DHCP distribution (DHCP relay agent) Assign IP address by Mac that can include dumb switch in DHCP network Provide DNS client feature and support Primary and Secondary DNS server. Support SNTP to synchronize system clock in Internet Support TFTP /HTTP firmware update Support text backup and restore; USB for edited

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**Optional

***Optional DDM SFP required

ORDERING INFORMATION

- IES-3424DSFP-2P......P/N: 8380-506
 24 10/100TX + 4 Dual SFP L2 plus Industrial Switch
 Built-in 1x isolated DC 12~56VDC power supply + 1x additional power socket; -20°C to 60°C
- IES-3424DSFP-2P-E......P/N: 8380-507
 24 10/100TX + 4 Dual SFP L2 plus Industrial Switch
 Built-in 1x isolated DC 12~56VDC power supply + 1x additional power socket; -40°C to 75°C
- IES-3424DSFP-2P-AC.....P/N: 8380-508
 24 10/100TX + 4 Dual SFP L2 plus Industrial Switch
 Built-in 1x isolated AC85-265VAC IEC320 power conversion + 1x additional power socket; -20°C to 60°C
- IES-3424DSFP-2P-AC-E......P/N: 8380-509
 24 10/100TX + 4 Dual SFP L2 plus Industrial Switch
 Built-in 1x isolated AC85~265VAC IEC320 power conversion + 1x additional power socket; -40°C to 75°C
- IES-3424DSFP-2P-HV......P/N: 8380-510
 24 10/100TX + 4 Dual SFP L2 plus Industrial Switch
 Built-in 1x isolated AC/DC 85~265VAC/100V~370VDC power conversion + 1x additional power socket; -20°C to 60°C
- IES-3424DSFP-2P-HV-E......P/N: 8380-511
 24 10/100TX + 4 Dual SFP L2 plus Industrial Switch
 Built-in 1x isolated AC/DC 85~265VAC/100V~370VDC power conversion + 1x additional power socket; -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)

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

Lantech Communications Global Inc.

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