

IES-3424DSFP-2P

24 10/100TX + 4 DualSpeed SFP Industrial L2+ Switch
 w/ Enhanced G.8032 Ring



OVERVIEW

Lantech IES-3424DSFP-2P is a high performance L2+ (Gigabit uplink) switch with 24 10/100/1000T + 4 Dual Speed SFP. 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.

Miss-wiring avoidance, Loop protection, Node failure protection

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 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 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, 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, 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 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 enables professional engineer to configure setting by command line.

Editable configuration file; USB port for configuration upload & download

The configuration file of Lantech IES-3424DSFP-2P 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 IES-3424DSFP-2P 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.

Various dual power conversions redundancy; Relay contact alarm

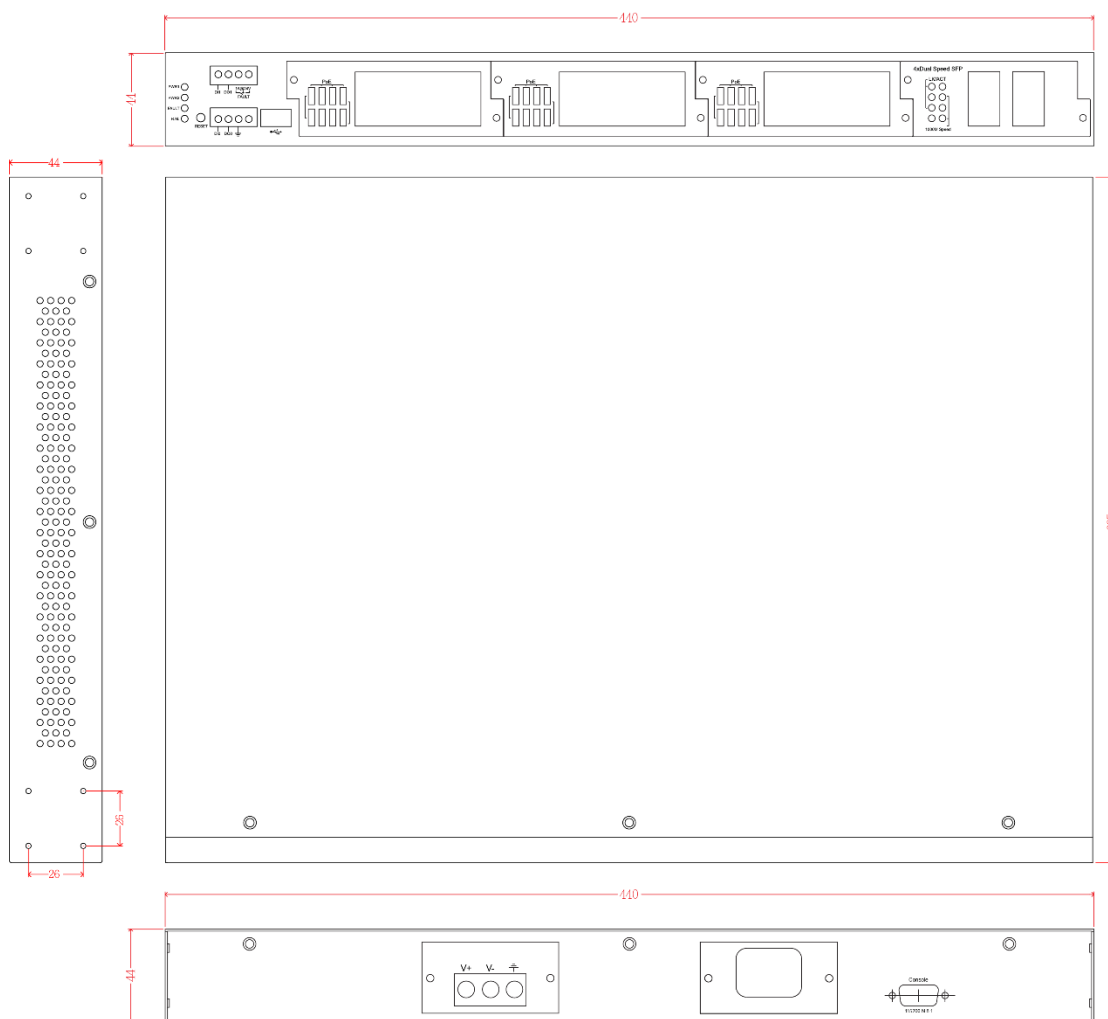
Lantech IES-3424DSFP-2P supports dual power redundancies with isolated 100~240VAC/120~370VDC power conversion and isolated 36~75VDC power conversion or with non-isolated 12~60VDC power module to increase the network reliability. Featured with relay contact alarm function, the IES-3424DSFP-2P is able to connect with alarm system in case of power failure. The IES-3424DSFP-2P also provides $\pm 4000V$ EFT, $\pm 4000V$ Surge and $\pm 8000V$ ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IES-3424DSFP-2P features high reliability and robustness withstanding extensive EMI/RFI phenomenon, lighting surge, inductive load switching, high ESD, high fault current, 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.

Lantech IES-3424DSFP-2P can run under widely operational temperature (-40°C~75°C) in the harsh environment.

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 802.1Q 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 temperature, current, voltage, input and output power
	IEEE 802.1D Spanning Tree	Protocol	CSMA/CD
	IEEE 802.1w Rapid Spanning Tree	LED	Per unit: Power 1 (Green), Power 2 (Green), Alarm (Red) ,R,M (Green)
	IEEE 802.1s Multiple Spanning Tree		Link/Activity (Green), Full duplex/collision(Yellow)), MINI GBIC (Link/Activity)(Green)
IEEE 802.3ad Link Aggregation Control Protocol (LACP)	Power Supply	Two power sockets, 9.5~60VDC input	
IEEE 802.1AB Link Layer Discovery Protocol (LLDP)		IEC320 100~240VAC conversion (-AC model)	
IEEE 802.1x User Authentication (Radius)		AC/DC 100~240VAC/120V~370VDC conversion (-HV model)	
Switch Architecture	Back-plane (Switching Fabric): 12.8Gbps	Power	Full load: 30W/ Unload: 13W
Transfer Rate	14,880pps for Ethernet port		
	148,800pps for Fast Ethernet port		
	1,488,000pps for Gigabit Ethernet / Gigabit Fiber port		

Consumption		Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 16 MSTI
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V	Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
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	Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
RTC	RTC(Real Time Clock) to keep track of time always	QoS by VLAN	Tagged QoS by VLAN for all devices in the network
Factory reset button & watch dog design	Factory reset button to restore back to factory default settings. Watch dog design can reboot switch automatically when CPU is found dead	MLD Snooping	Support IPv6 Multicast stream
Case Dimension	19" Metal case,IP-30; 440mm(W)x325mm(D)x44mm(H)	IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder
Weight	2.9 kgs	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
Operating Humidity	5%~95% (Non-condensing)	IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 1024 multicast groups; IGMP router port ; IGMP query; GMRP
Operating Temperature	Standard: -20°C ~60°C Extended temperature : -40°C ~75°C	Static MAC-Port Bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
Storage Temperature	-40°C ~85°C	Bandwidth Control	Support ingress packet filter and egress packet limit. The egress rate control supports all of packet type, the limit rates are 0~100Mbps. 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 from 0 to 100Mbps 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.
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN55032 Class A, CE EN55024	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
Safety	EN IEC 62368-1	Flow Control	Support Flow Control for Full-duplex and Back Pressure for Half-duplex
Stability Testing	IEC 60068-2-6: 2007 (Vibration) IEC 60068-2-27: 2008 (Shock)	Protection	1. Miss-wiring avoidance 2. node failure protection 3. Loop protection
MTBF	511,958 hours	System Log	Support System log record and remote system log server
Warranty	5 years	SNMP Trap	Up to 10 trap stations; trap types including: 1. Device cold start 2. Authorization failure 3. Port link up/link down 4. DI/DO open/close 5. Typology change(ITU ring) 6. Power failure 7. Environmental abnormal
Software Specification		DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP; DHCP Option 66; DHCP Snooping; basic IPv6 DHCP server
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI	Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
SNMP MIB	MIB MIBII SNMP MIB Bridge MIB IF MIB RMON MIB Private MIB		
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, QoS, Protocol based VLAN; IPv4 Subnet based VLAN		
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups		
LLDP	Support LLDP to allow switch to advise its identification and capability on the LAN		
CDP	Cisco Discovery protocol for topology mapping		
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring enhanced mode) 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 Cover multicast & data packets protection		
User friendly UI	1. Auto topology drawing 2. Topology demo 3. DDM threshold monitoring with dB values*** 4. Complete CLI supported		

DNS	Provide DNS client feature and support Primary and Secondary DNS server.	Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Diagnostic	Support Ping, ARP table and DDM information	USB Configuration backup and restore	Supports text editable configuration file for system quick installation to backup and restore USB dongle for automatic back up and editable restore
SNTP	Support SNTP to synchronize system clock in Internet	Auto Provision	To verify switch firmware with the latest or certain version
Environmental Monitoring	Internal sensor to detect temperature, voltage and current and send SNMP traps and emails if any abnormal events		
Factory reset button & watch dog design	Factory reset button to restore back to factory default settings. Watch dog design can reboot switch automatically under certain circumstances		

*Future Release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

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

- **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 optional 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 optional 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 AC100~240VAC IEC320 power conversion + 1x optional 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 AC100~240VAC IEC320 power conversion + 1x optional 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 100~240VAC/100V~370VDC power conversion + 1x optional 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 100~240VAC/100V~370VDC power conversion + 1x optional power socket; -40°C to 75°C

OPTIONAL ACCESSORIES

Power

EOTH000701

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



EOTH000703

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



EOTH000704

Power Input Module 12-56VDC, 2.5A



Mini GBIC (SFP)

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

All SFP# ended with D are with DDM function

Lantech Communications Global Inc.

www.lantech.com.tw
info@lantech.com.tw

© 2026 Copyright Lantech Communications Global Inc. all rights reserved. Updated on 28 APR 2026
 The revise authority rights of product specifications belong to Lantech Communications Global Inc.
 Lantech may make changes to specification and product descriptions at anytime, without notice.