LPES-2224CA

24 10/100TX + 2 1000T/SFP combo with 24 PoE Injector Managed Switch

- *Embedded 24 ports PoE inject function*
- *Embedded 200W AC power supply*
- *SNMP, Telnet, web, and CLI management*
- *Supports Spanning Tree and RSTP*

OVERVIEW

Lantech LPES-2224CA PoE switch is a highly integrated managed and PoE power feeding switch to deliver MTU, Transportation, VoIP, Surveillance applications. The 24 PoE interfaces provide flexible configuration options for the network.

Lantech LPES-2224CA grounding and fuse design double protect switch from outside statistic electricity and high power input. LPES-2224CA unique power and FAN monitoring and PD (power devices, like IP CAM, VoIP etc) power status monitoring provides centralized information for MIS. It also provides various PoE management functions such as power feeding priority, classification, disable / enable etc, which offer easy and user friendly interface for MIS.
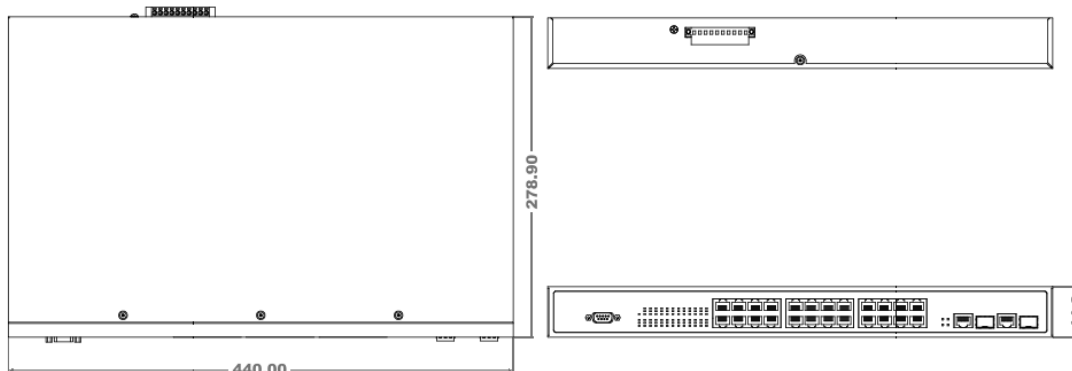
Lantech LPES-2224CA supports full SNMP functions including the latest traffic control protocols of VLAN, RSTP, IGMP Query and Snooping and Priority Queuing. The built-in IGMP Query function can eliminate the need of L3 switch in the same network for multimedia application.

Lantech LPES-2224CA is the best PoE switch to connect with IP Camera, Setup box, VoIP phone / router, Wireless Equipments for MTU, Transportation or Surveillance applications.

FEATURES & BENEFITS

- **24 port PoE Injectors, which complies with 802.3af**
- **Embedded 200W AC power supply**
- **24 10/100TX support auto MDI/MDI-X function with 2 Gigabit combo interfaces**
- **PD parametric information and power testing**
- **QoS/CoS support**
- **VLAN tagging (up to 4K)**
- **802.3ad LACP**
- **GVRP (256 groups)**
- **Port mirroring / Port security**

- **IGMP Snooping and Query mode**
- **IGMP multicast groups**
- **DHCP Client**
- **802.1X RADIUS**
- **SNTP support**
- **Ingress / Egress packet filtering**
- **User access authorization**
- **Login IP source authorization**
- **SNMP v1,v2**
- **Remote upgrade support**

DIMENSIONS (unit=mm)

278.90

440.00

44.0

SPECIFICATION

Hardware Specification

IEEE Standards	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3z Gigabit Fiber
	IEEE802.3ab Gigabit 1000BASE-T
	IEEE802.3x Flow Control and Back pressure
	IEEE802.3ad Port trunk with LACP
	IEEE802.1d Spanning tree protocol
	IIEEE802.1w Rapid spanning tree protocol
	IEEE802.1p Class of service
	IEEE802.1Q VLAN Tagging
	IEEE 802.1x user authentication
	IEEE802.3af Power over Ethernet
Connectors	10/100TX: 24 x RJ-45
	Gigabit Copper: 2 x RJ-45
	2 MINI GBIC for MINI GBIC transceiver
Switch architecture	Store and forward switch architecture.
	Back-plane up to 8.8Gbps
MAC address	8K MAC address table with Auto learning function
LED	System Power
	10/100TX RJ-45 Port: Link/Active (Green: 1000Mbps/ Orange: 10/100Mbps), Full-duplex/collision
	MINI GBIC/ Copper: Link/Activity (Green:1000Mbps/ Orange: 10/100Mbps),
	Full duplex/collision
Connector	24-port RJ-45 for 10/100TX
	RJ-45 Pin assignment and polarity: 1/2:RX signal
RS-232 connector	One RS-232 DB-9 female connector for switch management
Remote power feeding	End-point insert type and compatible with IEEE802.3af
	Per port feeding power: 15.4Watts (maximum)
Power	Embedded AC power supply: AC 100~240V, 50/60Hz, 200W
Power consumption	20W (maximum /without PD)
Ventilation	1 DC Fans with detect function
Operating Temperature	0°C ~45°C (32°F ~113°F)
Storage Temperature	-40°C to 70°C (-40°F ~158°F)
Case Dimension	440mm(W) x 280mm(D) x 44mm(H)
EMI	FCC Class A, CE
Safety	UL, cUL, CE/EN60950
Warranty	2 years

Software Specification

Management	SNMP/ Telnet/ web-browser/ CLI management
SNMP MIB	RFC 1157 SNMP,
	RFC 1213 MIB II,
	RFC 1643 Ethernet like,
	RFC 1493 Bridge MIB,
	RFC 2674 VLAN MIB,
	private MIB,
	RFC 1628 UPS MIB,
	RFC3621 Power Ethernet MIB
RFC standard	RFC 2030 SNTP, RFC 2821 SMTP (option), RFC 1215 Trap, RFC 1757 RMON 1
Type of Trap	Cold start, link down, link up, authorization fail, Trap station up to 3. Private trap for power supply device.
Software Upgrade	TFTP and console firmware upgradeable.

Port Trunk	Support IEEE802.3ad with LACP function. Up to 7 trunk groups and group member up to 4. The trunk port within 24-port 10/100TX and extension module.
Spanning Tree	Support IEEE802.1d spanning tree, IEEE802.1w RSTP
VLAN	Port based VLAN
	IEEE802.1Q Tag VLAN
	VLAN groups up to 256
Class of Service	Per system supports high and low queues. The priority service rule: first come first service, all High before Low, WRR for High or low weight.
Port-based Priority	Support 3 settings: "Disable, Low or High priority". When set to "Disable", the income packet will follow QOS policy; Otherwise, the packet will follow port priority setting to "High/Low" queue.
IGMP	It supports IGMP snooping for multimedia application and supports 256 groups
Port Security	It supports ingress and egress MAC address filter and static source MAC address lock.
Port Mirror	Global system supports 3 mirroring types: "RX, TX and Both packet". The maximum of port mirror entries is up to 25.
Bandwidth Control	Per port supports bandwidth control. Per level 100Kbps.
802.1x Authentication	Supports IEEE802.1x User -Authentication and can report to RADIUS server. Reject / Accept / Authorize / Disable
DHCP	DHCP client
Packet filter	Broadcast storm filter
Port configuration control	Port Disable / Enable. PD detect control (enable/disable), Classification detect control (enable/disable)
Fault status detect	Null: no PD present
	Overload: current support over 475mA @ DC 48V and over 50 milliseconds
	DR fail: PD discovery resistor is not in the limited range
Mode status	System detects status, it will show I –sample, V-sample and R-detect.
Parametric information	It will show current PD parameters, it include Discover-resistor detected value, current, voltage, power consumption, classification current and determined class
SNTP	Supports RFC 2030 Simple Network Time Protocol
System log	System Log record up to 1000 entries.
Power monitor	Support power supply monitoring function for AC power, DC power, fan status
	Additional power supply can be installed with POE switch and POE-UPWM.
Power testing	Support test function to testing power supply.
PoE Management	PoE Enable/Disable,
	Power limit by Classification;
	Power limit by management,
	Power feeding priority
	Detect Legacy Signature

*Future Release
**Optional

ORDERING INFOMATION

- **LPES-2224CA…………...…….......P/N: 8450-145**
  24 10/100TX w/24 PoE Injector 10/100TX w/Giga combo SNMP Switch; 0° C to 45°C

OPTIONAL ACCESSORIES

Mini GBIC (SFP)

8330-162	MINI GBIC 1000SX (LC/0.5km) Transceiver	8330-061	100Base LX 30KM, Single-mode, LC Transceiver
8330-163	MINI GBIC 1000SX2 (LC/2km) Transceiver	8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)
8330-165	MINI GBIC 1000LX (LC/10km) Transceiver	8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver	8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver	8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver	8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver	8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-170	MINI GBIC 1000EZX (120km) Transceiver	8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-168	MINI GBIC 10/100/1000T (100m) Transceiver	8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-060	100Base FX 2KM, Multi-mode, LC Transceiver	8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-065	100Base FX 5KM, Multi-mode, LC Transceiver	8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)

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