

LPES-2208CA

8 10/100TX + 2 100M/Giga SFP Combo Managed Switch

w/ 8 PoE Injectors & Pro-Ring System

- Pro-Ring covers X-Ring, Couple Ring, and Dual Homing Topology
- X-Ring provides recovery time < 10ms up to 250 units in one Ring
- Fully complies with IEEE802.3af PoE standard













OVERVIEW

Lantech LPES-2208CA is a 8-Port 10/100TX built in 8 PoE Injectors + 2-Port 10/100/1000T / Dual Speed SFP combo Managed Switch with SNMP and "X-Ring" Self-Heal Recovery functionality. The SNMP features are including QoS for 4 queues, 801.q VLAN, IGMP snooping and query mode as well as SNTP and SMTP.

Lantech LPES-2208CA supports Pro-Ring, fast network recovery scheme in less than 10ms. Couple Ring is to ensure network recovery protection between two Pro-Ring groups. Dual homing is to back up the Pro-Ring groups when connect to upper layer or core switch.

LPES-2208CA supports 48V input power and fully complies with IEEE802.3af feeding power up to 15.4W per port up to 8 ports via twisted pair cable.

Lantech-View is free bundle with LPES-2208CA, in which it monitors and configures multiple Lantech industrial switches up to 10. Optional Lantech-View Pro can map up to 1000 nodes with auto-layout, configuration and discovery.

Lantech LPES-2208CA is the best switch to use in Surveillance, Traffic Management, Automation, Airport, Wireless backhaul etc where PoE function and SNMP are required.

FEATURES & BENEFITS

- PoE Management
 - PoE Enable/Disable, Power limit by classification,
 Power limit by management, Power feeding priority,
 Detect Legacy Signature
- Lantech-View, Windows-based Utility for multiple switch monitoring & configuration
 - · Supports up to 10 switches version for free
- Pro-Ring System
 - · Covers X-Ring, Dual Homing, Couple Ring Topology
 - X-Ring provides redundant backup and recovery time below 10ms for a ring of up to 250 switches
- Port Based, Tag Based VLAN, GVRP
- Port Trunk with LACP
- QoS (Quality of Service)
 - · Per port provides 4 priority queues
 - · Port Base, Tag Base and Type of Service Priority

- Port Mirror: Monitor traffic in switched networks.
- Security
 - · Port Security: MAC address entries/filter
 - IP Security: IP address security management to prevent unauthorized intruder.
 - · Login Security: IEEE802.1X/RADIUS
- IGMP
 - · Query mode for Multi Media Application
 - Support multicast filter
- IEEE802.1d Spanning Tree;IEEE802.1w RSTP
- Support 802.1ab LLDP
- Bandwidth Control
- System Event Log
- SNMP Trap & Email Alert for events
 - Device cold start, Power status, Authentication failure,
 Pro-Ring topology changed, Port Link up / Link down

SPECIFICATION

| Hardware Specification | | | EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable |
|------------------------|---|---------------|--|
| Switch Architecture | Back-plane (Switching Fabric): 5.6Gbps Packet throughput ability (Full-Duplex): 2.38Mpps @64bytes | | EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable EIA/TIA-568 100-ohm (100m) |
| Transfer Rate | 14,880pps for Ethernet port 148,800pps for Fast Ethernet port | Optical Cable | |
| Mac Address | 8K MAC address table | | |
| Connector | 10/100TX: 8 x RJ-45 with auto MDI/MDI-X function 10/100/1000T Mini-GBIC Combo: 2 x RJ-45 + 2 x 100/1000 SFP sockets RS-232 connector: DB-9 | | |
| Network Cable | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E cable | | |

Datasheet Version 1.0



| | Multi mode: -20 dBm | | Rapid Spanning Tree |
|---------------------|---|--------------------|---|
| | Single mode: 0 to 40 km, -5 dBm; 0 to 80 km, -5 dBm Max. TX Output: Multi mode: -14 dBm | Pro-Ring | Support X-Ring, Dual Homing, Couple Ring Topology. Provide redundant backup feature and the recovery time below 10ms |
| | Single mode: 0 to 40 km, 0 dBm; 0 to 80 km, 0 dBm Sensitivity: | Quality of Service | The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service |
| | -36 to -32 dBm (Single mode); -34 to -30 dBm (Multi mode) | Class of Service | Support IEEE802.1p class of service, per port provides 4 priority queues |
| Protocol | CSMA/CD | Port Security | Support 100 entries of MAC address for static MAC |
| PoE pin assignment | RJ-45 port # 1~# 8 support IEEE 802.3af End-point, | | and another 100 for MAC filter |
| | Alternative A mode. Per port provides 15.4W ability. | Port Mirror | Support 3 mirroring types: "RX, TX and Both packet". |
| | Positive (VCC+): RJ-45 pin 1,2. | IGMP | Support IGMP snooping v1,v2 |
| LED | Negative (VCC-): RJ-45 pin 3,6. Svstem: Power | | 256 multicast groups and IGMP query |
| LED | Per port: Link/Activity, Speed, PoE | 15.0 | Support multicast filter |
| | Gigabit Combo port: Link/Activity | IP Security | Support 10 IP addresses that have permission to |
| Power Supply | External Power Supply: DC 48V power input | | access the switch management and to prevent |
| Power | 135 Watts(Full Load) | Login Security | unauthorized intruder. |
| Consumption | 100 Watto(i dii 20dd) | Bandwidth Control | Support IEEE802.1X Authentication/RADIUS |
| PoE Power budget | 15.4W per port, Max 84 Watts with 96W DC-48V | Danuwium Conno | Support ingress packet filter and egress packet limit The egress rate control supports all of packet type |
| | power adapter | | and the limit rates are 100K~102400Kbps(10/100), |
| Operating Humidity | 5% to 95% (Non-condensing) | | 100K~256000Kbps(1000) |
| Operating | Standard: 0°C~45°C; | | Ingress filter packet type combination rules are |
| Temperature | | | Broadcast/Multicast/Unknown Unicast packet, |
| Storage | -40°C to 85°C | | Broadcast/Multicast packet, Broadcast packet only |
| Temperature | | | and all of packet. The packet filter rate can be set |
| Case Dimension | 217mm (W) x 140mm (D) x 43mm (H) | | from 100K~102400Kbps(10/100), |
| Fan Number | 0 | Flow Control | 100K~256000Kbps(1000) Support Flow Control for Full-duplex and Back |
| Installation | Rack mount and wall mount ear. | Flow Control | Pressure for Half-duplex |
| EMI | FCC Class A, CE | System Log | Support System log record and remote system log |
| Safety Warranty | UL, cUL, CE/EN60950-1 2 years | Gystem Log | server |
| | | SMTP | Support SMTP Server and 6 e-mail accounts for |
| Software Sp | | | receiving event alert |
| Management | SNMP v1 v2c, v3/ Web/Telnet/CLI/X-View | SNMP Trap | 1. Cold start, |
| 01 II I I I I I I I | Management | | 2. Link down, |
| SNMP MIB | RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP | | 3. Link up, |
| | MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, | | Authorization fail, Description of the second sec |
| | RFC 1643 , RFC 1757, RSTP MIB, Private MIB, LLDP MIB | DHCP | Provide DHCP Client/ DHCP Server functions |
| VLAN | Port Based VLAN | SNTP | Support SNTP to synchronize system clock in |
| | IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up | 0111 | Internet |
| | to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP (256 Groups) | Firmware Update | Support TFTP firmware update, TFTP backup and restore. |
| Port Trunk with | LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk | | *Future Release |
| LACP | members | | **Optional |
| LLDP | Support LLDP to allow switch to advise its | | |
| | identification and capability on the LAN | | |
| Spanning Tree | Support IEEE802.1d Spanning Tree and IEEE802.1w | | |

ORDERING INFOMATION

■ LPES-2208CA......P/N: 8450-540

8 10/100TX + 2 x 10/100/1000T /Dual Speed SFP combo w/ 8 PoE injectors Managed Switch with 96W DC-48V power adapter

■ LPES-2208CA......P/N: 8450-541

8 10/100TX + 2 x 10/100/1000T /Dual Speed SFP combo w/ 8 PoE injectors Managed Switch without power adapter

OPTIONAL ACCESSORIES

Mini GBIC (SFP)

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

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