



### **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

### **FEATURES & BENEFITS**

- PoE Management
  - PoE Enable/Disable, Power limit by classification, Power limit by management, Power feeding priority, Detect Legacy Signature
- 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

SPECIFICATION

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

- · 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

Hardware Specification		Optical Cable	Distance: Multi mode:	
Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps Packet throughput ability (Full-Duplex): 2.38Mpps @64bytes		0 to 5 km, 1300 nm (50/125 μm, 800 MHz*km) 0 to 4 km, 1300 nm (62.5/125 μm, 500 MHz*km) Single mode:	
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port		0 to 40 km, 1310 nm (9/125 μm, 3.5 PS/(nm*km)) 0 to 80 km, 1550 nm (9/125 μm, 19 PS/(nm*km))	
Mac Address	8K MAC address table		Min. TX Output:	
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		Multi mode: -20 dBm Single mode: 0 to 40 km, -5 dBm; 0 to 80 km, -5 dBm Max. TX Output:	
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/6 cable		Multi mode: -14 dBm Single mode: 0 to 40 km, 0 dBm; 0 to 80 km, 0 dBm Sensitivity: -36 to -32 dBm (Single mode); -34 to -30 dBm (Multi mode)	
	EIA/TIA-568 100-ohm (100m)	Protocol	CSMA/CD	

Datasheet Version 1.0



### **POE Series**



Poil: Final segment      RL-4.6 sport ELEE 002.3d      Warrany      2 years        Bidgetini, Maining Annobe, Prop Diprovides Polishie (VCC): RL-4.6 pin 1.2. Negative (VCC): RL-4.6 pin 1.8.      Software Specification        Power Supply      System Power Person: Linking Annobe, Prop Diprovides Polishie (VCC): RL-4.6 pin 1.2.      Software Specification        Power Supply      External Power Supply: Consumption      Consumption      AC        Power Supply      External Power Supply: Consumption      AC      0.01        Power Supply      External Power Supply: Consumption      AC      0.01        Power Supply      External Power Supply: Consumption      AC      0.01        Power Supply: Consumption      AC      0.04        Por Tome with Consumption      AC      0.04 <tr< th=""><th></th><th></th><th></th><th></th><th>Warranty</th><th>2 years</th></tr<>					Warranty	2 years
15.4 W abity Possible (VCC): K-H45 pin 12.        Description      Second Supply Consumption      Consumption      Port Ease Consumption      Port Supply Consumption      Consumption      Consumption      Consumption      Consupply Consuply Consumption      Consumption						
LED      System: Power Per port: Link/Activity, Speed, PoE Power Supply      FC 1215 Tab. RFC 1157 SMP MB, RFC 1438 Add yab. RFC 1157 SMP MB, RFC 1215 Tab. RFC 1157 SMP MB, RFC 121	Ŭ					
LED      System Power Gigabi Contoo port: Link/Activity Bener Stuppy AC 100 -244V (13A, 50001);      MB, RFC 1403 English, RFC 2074 VLAN MB, RFC 1403 English, Prviate MB, Power Consumption        Power Consumption      AC      AC        Dower Consumption      AC      AC        DC 48V      100 -00V      Support LLDP to alk somming. Couple Ring Topology.        Un- load      PF      0.42        AC instat Prv Topology.      AC instat Prv Topology.      Pro Time AV Topology.        Full Load(Only Ethernet)      AC instat Prv AC instat Prv Topology.      Pro Time AV Topology.        Full Load(Only Ethernet)      PF      0.48        AC instat Prv Full Load(Only PD      PF      0.48        AC instat Prv Full Load(Only PD      PF      0.48        Full Load(Only PD      AC						
Prover Supply      Description      Prover Supply        Power Supply      External Power Supply: AC 100-240V, 13A, 5000/z DC Oupput 44V / 2A      AC        Power Supply      Consumption      AC        Power Supply: Consumption      AC      AC        DC 042V      100-44V / 2A        DC 042V      100-44V        AC      0.02        Un- load      PF        AC      0.02        AC      0.04        PF      0.42        AC      0.04        AC      0.04        Full Load(Only      DC 48V        Full Load(Only      DC 48V        Full Load(Only PD      DC 48V </td <td></td> <td></td> <td>o pin 3,6.</td> <td></td> <td>SINIVIP IVIIB</td> <td></td>			o pin 3,6.		SINIVIP IVIIB	
Driver Supply      External Power Supply        Consumption      AC        Ower Supply      AC        Consumption      AC        DV AV      AC        DV AV      AC        DV AV      AC        DV AV      AC        DV			peed, PoE			
Decension      Dec 48V      102-bit Mark      Consumption      IEEE 802.10 Factors      Consumption        Power Consumption      Image: Consumption						
DC Output +48Y / 2A      Io 4.8      Io 4.8      VLN IP Case for ups and the addison its ad	Power Supply				VLAN	
Power Consumption      Ch      Company      CVRP (256 Coups)        Consumption      DC 48V      102m      Consumption      Consumption        Un- load      DC 48V      102m      Support LLDP to allow switch to advise its Identification and expability on the LAN        Un- load      PF      0.42      Support LLDP to allow switch to advise its Identification and expability on the LAN        Un- load      PF      0.42      Support LLDP to allow switch to advise its Identification and expability on the LAN        Un- load      PF      0.42      Support LLDP to allow switch to advise its Identification and expanility on the LAN        Un- load      PF      0.42      Support LLDP to allow switch to advise its Identification and the interview provide redundance and the interview support LLDP provide redundance and the interview support LLDP provide redundance and the interview support LLDP and the interview and the interview support LLDP and the interview and the interview support LLDP and the interview and the interview and the interview support LLDP and the interview and the interview and the interview support LLDP and the interview and the interview support LLDP and the interview and the interview and the interview and the interview and the interview and the limit regress rate control support all of packet type and the limit regress rate control support all of packet type and the limit regress rate control support sall of packet type and the limit regress rate control support sall of packet type and the limit regress rate control support sall of packet type and						
Consumption      AC      AC        00'	Power					
Image: space				AC		
DC 48V      100ml        Image: An intermediation of the LAN intermediatint of the andifferent of the LAN intermediation of the LAN inte				00\/		
Bandwidth Control      Support IEEE802.1 d spanning Tree and				307		
AC      0.143A        Un-load      PF      0.42        AC      0.143A        PF      0.42        AC      0.143A        AC      0.423A        AC      0.424A        AC      0.243A        Full Load(Only      PF      0.46        AC      0.243A        Full Load(Only      PF      0.46        AC      0.243A        Full Load(Only      PF      0.46        AC      0.243A        Full Load(Only PP      PF      0.46        AC      0.243A        Full Load(Only PP      PF      0.36        AC      0.88A        Full Load(Only PP      PF      0.36        AC      0.88A        Full Load(Only PP      PF      0.36        AC <t< td=""><td></td><td></td><td>DC 48V</td><td>102mA</td><td>Spanning Tree</td><td></td></t<>			DC 48V	102mA	Spanning Tree	
AC      0.434        Un-load      PF      0.42        AC      provide redundant backup feature and the recovery lime below 10ms        AC Input Power      5.4        (wath)      5.4        DC 48V      180mA        AC      post 3 microing types: TRX, IX and Both packets for static MAC and resorce per port provides determined by port, Tag and The quality of service and the recovery lime below 10ms        Support 100 entries of MAC address for static MAC and set types the service struct and provide redundant backup feature and the recovery lime below 10ms        Full Load(Only      PF      0.46        AC input Power (wath)      AC o 243A        Full Load(Only      PF      0.46        AC input Power (wath)      0.243V        IP 5 country      Support mulcicast groups and 1GMP query support mulcicast packet filter and egress packet filter				1021171		IEEE802.1w Rapid Spanning Tree
Un-load      PF      0.42        AC:IrpuFlover      5.4        (web)      5.4        DC 48V      180mA        AC:IrpuFlover      5.4        (web)      DC 48V        Performation      DC 48V        Full Load(Only      PF        AC:IrpuFlover      0.4243        Full Load(Only      PF        AC:IrpuFlover      0.464        AC:IrpuFlover      0.464        AC:IrpuFlover      0.464        Full Load(Only      PF        Ibod      AC:IrpuFlover        (web)      10.3        Full Load(Only PD      PF        Ibod      AC:IrpuFlover        (web)      Ibod        AC:IrpuFlover      0.986A        Full Load(Only PD      PF        Ibod      AC:IrpuFlover        (web)      PF      0.986        AC:IrpuFlover      0.986A        Full Load(Only PD      PF      0.986        AC:IrpuFlover      0.986        (web)      AC:IrpuFlover        (web)      0.986			AC	0.1/34	Pro-Ring	
Un-load      PF      0.42      The quality of Service      The quality of service, proving the below 10ms.        AC: irput Power      5.4      (wets)      5.4      Class of Service      PV4/IPV Different Service, proving 2005        Port Security      DC 48V      180mk      AC input Power      Support IEEE802.1 p class of Service, proving 2005      Port Security      Support 101P address for static MAC address for static MA				0.1-0/		
Out-Mask      Out-2        AC input Power (wests)      AC input Power (wests)      The quality of Service      The quality of Service determined by pont, Tag and Drive Service, PA/IPPO Different Service Driport Quality of Service        DC 48V      180mA        Full Load(Only Ethment)      DC 48V      180mA        AC 0.243A      PF      0.46        Full Load(Only Ethment)      PF      0.46        AC input Power (wests)      0.3      Support 10P encoding v1/v2 Support 10P encoding v1/v2 Support 10P encoding v1/v2 Support 10P addresses that have permission to access the switch management and to prevent unauthorized intruder.        DC 48V      143mA      AC 0.868A        Full Load(Only PD load)      PF      0.96        AC input Power (wests)      The grasm state that have permission to access the switch management and to prevent unauthorized thread egress packet ifter and egress packet in the gress rate control support all of packet type and the limit rates are 100K-102400Kbps(1000).        The equality of Service      Support 11P encodes that have permission to access the switch management and to prevent unauthorized thread egress packet ifter and egress packet in the immit rates are 100K-102400Kbps(1000).        The ergens rate control support EEE802.1X Authentication rules are trone 10K-102400Kbps(1000).      Support SHTP encodes that have permission to access the switch management and to bread escent trone 10K-102400Kbps(1000).  <		Lin lood	PF	0.40		
AC input Power (web)      AC input Power (web)      5.4        Image: Construct on the set (web)      5.4      Support 100 entries of MAC address for static MAC and another 100 for MAC filter        Image: Construct on the set (web)      DC 48V      180mA        Full Load(Only Ethernet)      PF      0.46        AC input Power (web)      AC input Power (web)      0.243A        PF      0.46      Support 100F snoping v1 v2 Support 100F snoping v1 v2 Suport 100F snoping v1 v2 Support 100F snoping v1 v2 Suport 100F sno		Un- Ioad		0.42	Quality of Service	
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Port Security      Support 100 entries of MAC address for static MAC and another 100 for MAC address for static MAC support FILE S02.1X Authentication rules are for adores in packet type for adores in packet type for adores in the set from the limit rates are 100K-10240Kbps(10/100). 100K-125800Kbps(1000) 100K-125800					Class of Service	
Poil Load(Only      DC 48V      180mk        Full Load(Only      PF      0.46        AC      0.243A        Full Load(Only      PF      0.46        AC      0.243A        AC      0.243A        Full Load(Only      PF      0.46        AC      0.243A        AC      0.243A        AC      0.243A        AC      0.243A        Support 10 IP addresses that have permission to access the sith management and to prevent unauthorized intrudes.        Login Security      Support 10 IP addresses that have permission to access the sith management and to prevent unauthorized intrudes.        Init      AC      0.886A        Full Load(Only PD      PF      0.96        AC      0.886A      Full Load(Only PD        Full Load      AC inputPower      75        (web)      75      Support 10W Control for Full-diptex and Back        Full Load      Kubb)      80.6        AC-inputPower      75      Support SMTP Server and 6 e-mail accounts for receiving event alert        Full Load      Kubb)      80.6      Support SMTP Server and 6 e-mail accounts for receiving e			(watts)	5.4	Port Security	
DC 48V      180mA        Full Load(Only      AC      0.243A        PF      0.46        AC      0.243A        PF      0.46        AC inputPower      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that have permission to carear unauthorized intruder.        I/P Security      Support 10P endoreses that there denores at each endores unauthorized intruder.        I/P Security      Support 10P endoreses that there denores at each endores unauthorized intruder.        I/P Security      AC inputPower        I/P Security			(Holds)			
Poil Load    AC    0.243A      Full Load(Only    PF    0.46      AC    0.243A      PF    0.46      AC input Power    Support 10 P addresses that have permission to access the switch management and to prevent unauthorized intruder.      ID    AC input Power      (watis)    10.3      IV    DC 48V      ILoad(Only PD    DC 48V      Full Load(Only PD    DC 48V      Ioad)    AC      PF    0.868A      Full Load(Only PD    PF      Ioad)    AC      AC    0.868A      Full Load(Only PD    PF      Ioad)    AC      AC    0.868A      Full Load(Only PD    PF      Ioad)    AC-input Power      (wetts)    75      (wetts)    75      Flow Control    Support System Iog record and remote system log server      System Log    Support System Iog record and remote system log server      System Log    Support System Iog record and remote system log server      System Log    Support System Iog record and remote system log record and remote system log server  <				1001	Port Mirror	
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power dagter    AC    0.243A poer fullicast groups and IGMP query Support fullicast filter      PoE Power budget    AC    0.243A poer fullicast groups and IGMP query Support fullicast filter      PoE Power budget    AC    0.46      Poer ating Temperature    AC    0.886A (wats)      Poer Power budget    AC    0.868A (wats)      Poer Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adgref    75      System Log    Support System log resort fail, s. Po Power adgref    2.0 cl as X, CE      Operating Temperature    5.40 cl or 0.5° (cl as X, CE    5.10 kg comments      Poer Cases Accessed    15.4W per port, Max 84 Watts with 96W DC-48V power adgref    75      Shift Prace    Support System Log    Support System Log      Support System Log    Support System Log    Support System Log      Support System Log    Support System Log    Support System Log      Support System Log    Support System Log    Support System Log<			DC 48V	180mA		
Full Load(Only    Full Load(Only    PF    0.46      AC imputPower    0.46    Support 10 P addresses that have permission to access the switch management and to prevent unsultroad intruder.      AC imputPower    10.3    Support 11EEE02.1X Authentication/RADIUS      Bandwidth Control    Support 11EE02.1X Authentication/RADIUS      Bandwidth Control    Support 11EEE02.1X Authentication/RADIUS      Full Load(Only PD    PF    0.96      AC impuPower    75    Support 11EE02.1X Authentication/RADIUS      Full Load    AC impuPower    75      (wats)    80.6    Support SMTP Server and 6 e-mail accounts for rece			AC	0.243A	IGIVIP	
PoE Power budget  Full Load (Only PD load)  PF  0.46    Full Load (Only PD load)  DC 48V  1431mA    AC input Power load)  AC 0.868A    Full Load (Only PD load)  PF  0.96    AC-input Power load)  AC input Power load    Ioad)  PF  0.96    AC-input Power load)  PF  0.96    AC-input Power load)  AC input Power load  Bandwidth Control    Ioad)  PF  0.96    AC-input Power load)  PF  0.96    AC-input Power load)  AC-input Power load  Bandwidth Control    System Log  Support Flow Control  Support System log record and remote system log server    System Log  Support System log record and remote system log server    System Log  Support System log record and remote system log server    Simper adure remotion  Support System log record and remote system log server    System Log  Support System log record and remote system log server    System Log  Support TFP encl. Cole of str.    Operating Temperature  Standard: 0°C+45°C;    Temperature  4-0°C to 85°C    Case Dimension  217mm (W) x 140mm (D) x 43mm (H)    Fan Number  Rack mount and wall mount ear.    EMM  FCC Class A, C E						
Ethernet)      C.30      AC      Ingate Power      Support Ingress packet filter and egress packet f			DE	0.46	IP Security	
PoE Power budget      15.4W per port, Max 84 Watts with 96W DC-48V      AC input Power dataper      Control      Support IEEE802.1X Authentication/RADIUS        PoE Power budget      DC 48V      143tmA      Support ingress packet filter and egress packet time trates are 100K-102400Kbps(10100), 100K-256000Kbps(1000)      Ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast packet, Broadcast/Multicast packet, Broadcast packet, Broadcast/Multicast packet, Broadcast packet, Broadcast, Broadcast packet, Broadcast, Broadcast packet, Broad			PF			
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V (wetts)    10.3      PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power dapter receiving strate or tables of the met adapter strate or tables of tabl			10 F 15	Bandwidth Contr	Login Security	
Image: serie control supports all of packet type and the limit rates are 10X-102400Kbps(10/100), 100K-256000Kbps(1000) Ingress filter packet type combination rules are Broadcast/Multicast packet, Broadcast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast/Multicast packet, Broadcast packet, Broadcast/Multicast packet, Broadcast/Multicast, Broadcast			10.3			
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter    80.6      Operating Humidity    5% to 95% (Non-condensing)    AC-input Power of the soft of						
DC 48V    1431mA      AC    0.868A      Full Load(Only PD    PF      Ioad)    PF      AC    0.96      AC    ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast/Unknown, Simperstater			(watts)			
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power dataget    80.6      Operating Humidity    5% to 95% (Non-condensing)    AC input Power dataget      Operating Humidity    5% to 95% (Non-condensing)    0.217mm (W) x 140mm (D) x 43mm (H)      Operating Humidity    Standard: 0°C ~45°C;    Full Load      Operating Humidity    Standard: 0°C ~45°C;    Full Rescue Condensing)      Humidity    Standard: 0°C ~45°C;    Full Rescue Condensing)      Full Rescue Condensing    217mm (W) x 140mm (D) x 43mm (H)    Full Rescue Condensing      Full Rescue Condension    217mm (W) x 140mm (D) x 43mm (H)    Full Rescue Condensing      Full Rescue Condension    217mm (W) x 140mm (D) x 43mm (H)    Full Rescue Condension      Full Rescue Condension    Case Dimension    217mm (W) x 140mm (D) x 43mm (H)      Ferry Release **Optional    Case Dimension    217mm (W) x 140mm (D) x 43mm (H)      Ferry Release **Optional    **Optional						
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adpeter    80.6      Operating Humidity    5% to 95% (Non-condensing)    0.4C input Power 40% pow			DC 48V	1431mA		
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter    80.6      Operating Humidity    5% to 95% (Non-condensing)    AC-linput Power adapter      Operating Temperature    -40°C to 85°C    -40°C to 85°C      Standard: 0°C -45°C;    -40°C to 85°C      Temperature    -40°C to 85°C      EMI    Full Load wall mount ear.      EMI    Class A, CE				0.868A		
Full Load(Only PD load)    PF    0.96      AC-linput Power (watts)    75      AC-linput Power (watts)    75      Full Load    AC-linput Power (watts)    80.6      PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter    80.6      Operating Humidity    5% to 95% (Non-condensing)    80.6      Mumidity    5% to 95% (Non-condensing)    HCP      Firmware Update    Support TFIP formware update, TFIP backup and restore.      Storage Temperature    -40°C to 85°C    "Full value Release "Optional      Case Dimension    217mm (W) x 140mm (D) x 43mm (H)    -40°C      Fan Number    0    -40°C class A, CE						
Ioad)    AC-linput Power    75      AC-linput Power    75      (watts)    75      Full Load    AC-linput Power      Full Load    AC-linput Power      Full Load    AC-linput Power      Full Load    80.6      (watts)    80.6      PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter      Operating    5% to 95% (Non-condensing)      Humidity    5% to 95% (Non-condensing)      Operating    540°C to 85°C      Temperature    217mm (W) x 140mm (D) x 43mm (H)      Fan Number    0      Installation    Rack mount and wall mount ear.      EMI    FCC Class A, CE						
AC-linput Power    75      (watts)    75      (watts)    75      Full Load    AC-linput Power      Full Load    AC-linput Power      Full Load    80.6      (watts)    80.6      PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter      Operating    5% to 95% (Non-condensing)      Humidity    5% to 95% (Non-condensing)      Operating    5kandard: 0°C ~45°C;      Temperature    -40°C to 85°C      Storage    -40°C to 85°C      Temperature    0      Installation    Rack mount and wall mount ear.      EMI    FCC Class A, CE			PF	0.96		
AC-Input Power    75      (watts)    75      Build of the power    75      AC-Input Power    80.6      Full Load    AC-Input Power      (watts)    80.6				75	Flow Control	
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter    80.6      Operating Humidity    5% to 95% (Non-condensing)    80.6 C      Operating Temperature    5% to 95% (Non-condensing)    Bandard: 0°C ~45°C;      Standard: 0°C ~45°C;    Furture Release      Temperature    -40°C to 85°C      Standard: 0°C ~45°C;    *Future Release      Temperature    217mm (W) x 140mm (D) x 43mm (H)      Fan Number 0    EMI      EMI    FCC Class A, CE			AC- linput Power		System Log	
PoE Power budget  15.4W per port, Max 84 Watts with 96W DC-48V power adapter  80.6 (watts)  80.6    PoE Power budget  15.4W per port, Max 84 Watts with 96W DC-48V power adapter  5. PD disconnect trap-PoE port event    Operating Humidity  5% to 95% (Non-condensing)  DHCP  Provide DHCP Client/ DHCP Server functions    Storage Temperature  -40°C to 85°C  *Future Release    Case Dimension  217mm (W) x 140mm (D) x 43mm (H)  *Future Release    Fan Number  0  **Optional    EMI  FCC Class A, CE  FCC Class A, CE			(watts)			server
PoE Power budget  15.4W per port, Max 84 Watts with 96W DC-48V power adapter  80.6    Operating Humidity  5% to 95% (Non-condensing)  0    Operating Temperature  Standard: 0°C ~45°C;  5% to 85°C    Storage Temperature  -40°C to 85°C  *Future Release **Optional Installation    Rack mount and wall mount ear.  EMI  FCC Class A, CE					SMTP	
AC-ImpOrtPower      Full Load    AC-ImpOrtPower      Full Load    80.6      (watts)    80.6      PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter      Operating    5% to 95% (Non-condensing)      Humidity    5% to 95% (Non-condensing)      Operating    Standard: 0°C ~45°C;      Temperature    -40°C to 85°C      Storage    -40°C to 85°C      Temperature    217mm (W) x 140mm (D) x 43mm (H)      Fan Number    0      Installation    Rack mount and wall mount ear.      EMI    FCC Class A, CE					SNMP Trap	
PoE Power budget  15.4W per port, Max 84 Watts with 96W DC-48V power adapter  4. Authorization fail, 5. PD disconnect trap-PoE port event    Operating  15.4W on-condensing)  5% to 95% (Non-condensing)  DHCP  Provide DHCP Client/ DHCP Server functions    Operating  5% to 95% (Non-condensing)  Firmware Update  Support SNTP to synchronize system clock in Internet    Operating  Standard: 0°C ~45°C;  Support TFTP firmware update, TFTP backup and restore.    Temperature  -40°C to 85°C  *Future Release    Case Dimension  217mm (W) x 140mm (D) x 43mm (H)  -40°C class A, CE			AC-linput Power			
PoE Power budget    15.4W per port, Max 84 Watts with 96W DC-48V power adapter    5. PD disconnect trap-PoE port event      Operating Humidity    5% to 95% (Non-condensing)    Provide DHCP Client/ DHCP Server functions      Operating Humidity    5% to 95% (Non-condensing)    Standard: 0°C ~45°C;      Temperature    -40°C to 85°C    *Future Release      Storage Temperature    -217mm (W) x 140mm (D) x 43mm (H)    **Optional      Fan Number    0    1nstallation    Rack mount and wall mount ear.      EMI    FCC Class A, CE    FCC Class A, CE    FCC Class A, CE		Full Load		80.6		
PoE Power budget  15.4W per port, Max 84 Watts with 96W DC-48V power adapter    Operating  5% to 95% (Non-condensing)    Humidity  SNTP    Support SNTP to synchronize system clock in Internet    Power adapter  Standard: 0°C ~45°C;    Temperature  -40°C to 85°C    Temperature  -40°C to 85°C    Temperature  217mm (W) x 140mm (D) x 43mm (H)    Fan Number  0    Installation  Rack mount and wall mount ear.    EMI  FCC Class A, CE			(watts)			
Dover adapter      SNTP      Support SNTP to synchronize system clock in Internet        Operating Humidity      5% to 95% (Non-condensing)      Internet      Internet        Operating Temperature      Standard: 0°C ~45°C;      Support TFTP firmware update, TFTP backup and restore.      Firmware Update        Case Dimension      217mm (W) x 140mm (D) x 43mm (H)      **Optional      **Optional        Installation      Rack mount and wall mount ear.      EMI      FCC Class A, CE	PoE Power budget	15.4W per port, Max 84	Watts with 96W D	DC-48V	DHCP	
Humidity  Firmware Update  Support TFTP firmware update, TFTP backup and restore.    Operating Temperature  Standard: 0°C ~45°C;  *Future Release    Storage Temperature  -40°C to 85°C  *Future Release    Case Dimension  217mm (W) x 140mm (D) x 43mm (H)  **Optional    Fan Number  0  Installation  Rack mount and wall mount ear.    EMI  FCC Class A, CE  FCC Class A, CE		power adapter				
Operating Temperature      Standard: 0°C ~45°C;      Standard: 0°C ~45°C;        Storage      -40°C to 85°C      *Future Release        Case Dimension      217mm (W) x 140mm (D) x 43mm (H)      **Optional        Fan Number      0      Installation      Rack mount and wall mount ear.        EMI      FCC Class A, CE      FCC Class A, CE      FCC Class A, CE		5% to 95% (Non-condensing)				
Temperature    *Future Release      Storage    -40°C to 85°C      Temperature    **Optional      Case Dimension    217mm (W) x 140mm (D) x 43mm (H)      Fan Number    0      Installation    Rack mount and wall mount ear.      EMI    FCC Class A, CE		Standard: 0℃~45℃;		Firmware Update		
Storage Temperature    -40°C to 85°C    **Optional      Case Dimension    217mm (W) x 140mm (D) x 43mm (H)    **Optional      Fan Number    0    Installation    Rack mount and wall mount ear.      EMI    FCC Class A, CE    FCC Class A, CE						
Case Dimension    217mm (W) x 140mm (D) x 43mm (H)      Fan Number    0      Installation    Rack mount and wall mount ear.      EMI    FCC Class A, CE	Storage	-40℃ to 85℃				
Fan Number  0    Installation  Rack mount and wall mount ear.    EMI  FCC Class A, CE		047	D) 40			
Installation      Rack mount and wall mount ear.        EMI      FCC Class A, CE		. , ,	D) x 43mm (H)			
EMI FCC Class A, CE						
Safety CE/EN60950-1						
	Safety	CE/EN60950-1				

## **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	8330-165	MINI GBIC 100
8330-163	MINI GBIC 1000SX2 (LC/2km) Transceiver	8340-0591	MINI GBIC 100

000LX (LC/10km) Transceiver 000LHX (LC/40km) Transceiver

Datasheet Version 1.0

### **POE Series**



8330-166	MINI GBIC 1000XD (LC/50km) Transceiver	8330-
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver	8330-
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver	8330-
8330-170	MINI GBIC 1000EZX (120km) Transceiver	8330-
8330-168	MINI GBIC 10/100/1000T (100m) Transceiver	8330-
8330-060	100Base FX 2KM, Multi-mode, LC Transceiver	8330-
8330-065	100Base FX 5KM, Multi-mode, LC Transceiver	8330-
8330-061	100Base LX 30KM, Single-mode, LC Transceiver	8330-
8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)	8330-

8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)

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