

Gigabit Unmanaged PoE+ Switch



Overview

The LPH008A-R2 switch is an unmanaged Gigabit PoE Ethernet switch with P.S.E. function. The switch supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. It also supports wide range 12–57VDC power inputs and generates 50 VDC P.S.E. power output per port.

The PoE switch has eight 10/100/1000BASE-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup.

The switch operates in a wide temperature range: -40 to +167° F (-40 to +75° C).

Basic Features

- ◆ Provides eight 10/100/100Base-T(X) PoE (P.S.E.) ports
- ◆ Complies with the IEEE 802.3at PoE standard.
- ◆ Offers a total power budget of 120 Watts with a maximum of 30 Watts per port.
- ◆ Supports jumbo frames up to 9 KBytes.
- ◆ Has dual wide-range 12–57 VDC power inputs for power redundancy.
- ◆ Supports auto-negotiation and auto-MDI/MDI-X.
- ◆ Uses store-and-forward transmission.
- ◆ Supports flow control.
- ◆ Housed in a rigid IP-30 enclosure.
- ◆ Mounts on a DIN rail or wall.

Gigabit Unmanaged PoE+ Switch Data Sheet

TABLE 1-1. SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Physical Ports	
10/100/1000BASE-T(X) P.S.E.	(8) RJ-45 Auto MDI/MDI-X
Technology	
Ethernet Standards	IEEE 802.3 for 10BASE-T; IEEE 802.3u for 100BASE-TX; IEEE 802.3ab for 1000BASE-T; IEEE 802.3x for flow control; IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.); 12–24 VDC: PoE output 60 W max.; 24–57 VDC: PoE output 120 W max.
MAC Table	4096 MAC addresses
Processing	Store-and-Forward
Jumbo Frame	Up to 9 KBytes
LED Indicators	
Power Indicator	(2) Power LEDs (green): (1) PWR 1, (1) PWR 2
Fault Indicator	(1) Power Fault LED (amber) indicates PWR 1 or PWR 2 failure
10/100/1000BASE-T(X) RJ-45 port indicator	(8) Link/Act LEDs: Green for port Link/Act at 1000 Mbps; Amber for port Link/Act at 10/100 Mbps
PoE indicator	(8) PoE LEDs: Green for PoE power injected
DIP Switch	
DIP Switch 1	PWR 2 failed warning: ON when enabled, OFF when disabled
DIP Switch 2	PWR 1 failed warning: ON when enabled, OFF when disabled
Fault Contact	
Relay	Relay Output carries capacity of 1 A at 24 VDC
Power	
Redundant Input Power	Dual 12–57 VDC inputs on 6-pin terminal block
PoE Output Power	60 Watts @ 12–24 VDC; 120 Watts @ 24–57 VDC
Power Consumption (Typical)	6 Watts (PoE output not included)
Overload Current Protection	Present
Reverse Polarity Protection	Present
Physical	
Enclosure	IP-30
Dimensions	5.68"H x 1.62"W x 3.74"D (14.43 x 4.1 x 9.49 cm)
Weight	1.4 lb. (0.64 kg)

TABLE 1-1 (CONTINUED). SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Environmental	
Storage Temperature	-40 to +185° F (-40 to +85° C)
Operating Temperature	-40 to +167° F (-40 to +75° C)
Operating Humidity	5 to 95%, noncondensing
Regulatory Approvals	
EMI	FCC Part 15, CISPR (EN55022) Class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
MTBF	699914 hours

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