

LP2521 Power over Ethernet Single Port Injector

**Exceeds IEEE 802.3af
PoE Standards**



Functions and Features

The LAN Power Systems Model LP2521 Single Port PoE Injector supports powering applications in which AC Power is difficult or costly to access.

The Single Port PoE Injector acts as a “patch panel” and adds ~48 VDC to unused (non-data) wires in a standard Category 5, 5e, or 6 Ethernet cable. The LP2521 delivers both data and power over a single standard Ethernet cable to an End device designed to receive both Data and Power through its RJ45 connector.

Key features of the Single Port PoE Injector include:

- Extremely cost effective vs. traditional powering techniques
- Exceeds IEEE 802.3af Power over Ethernet Standards
- Supports Data links at 10Mbps, 100Mbps or 1000Mbps
- Output Wattage is up to 28W continuously
- Extended Temperature operating range
- LED indicators show powering status
- Over voltage current and short circuit protected
- Removable Power Cord w/IEC-320-C7 connector
- Data and Power carried on same Ethernet cable
- Ships with wall mounting bracket - use if needed
- Works with LAN Power’s Voltage Adapter family to power End devices requiring 24V, 12V or 5V
- Full 2 Year Product Warranty

Powering Applications

- Security and Access Controls
- IP Security Cameras
- VoIP Phones
- Wireless LAN Access Points
- Emerging Products

Safety Approvals

- FCC
- CE
- UL / cUL

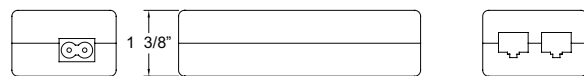
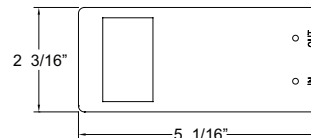
Unit Dimensions

Length: 5-1/16" (128.6mm)

Width: 2-3/16" (55.5mm)

Height: 1-3/8" (34.9mm)

Weight: 5.1 oz. (0.15 kg)



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Powering Up the Injector

Plug one end of the power cord into the Injector and the other end into a grounded AC power source. Units are typically connected to a power strip or other power outlet that may be cycled on and off. An uninterruptible power supply (UPS) may be used. This assures uninterrupted power to the End device should there be a loss of building power.

Safety Instructions: The means of connection to the mains supply is the detachable power cord of the equipment. The equipment disconnect device is the appliance inlet. The AC socket outlet shall be installed near the equipment and shall be easily accessible.

Next, attach a LAN data cable patch cord of minimum Cat5 cable grade from the Ethernet Switch port to the RJ45 connector on PoE Injector marked "IN". Then attach a second patch cable from the "OUT" RJ45 connector on the PoE Injector to the structured wiring connection leading to the device to be powered. Turn on power source. The "IN" LED on the Injector will glow "GREEN". If End device to be powered is already installed on Network, the "OUT" LED will glow "GREEN". The PoE Injector is now correctly installed and operating.

LED indicators and functions

The LP2521 PoE Injector has two LED's which assist with understanding unit operation.

- LED (IN) - Unit Power - The LED glows GREEN if input power is being received properly from AC outlet. This indicates the unit is capable of forwarding power to the End device.
- LED (OUT) - Connection to End device and Power forwarding - The LED glows GREEN if detection is achieved with the End device and power is being forwarded out over the Ethernet cable.

Ordering Info

Model LP2521 Single Port Injector

Environmental Specifications

Operating Temperature: -40° to 185° F / -40° to 85° C
 Storage Temperature: -40° to 185° F / -40° to 85° C
 Relative Humidity: 10% to 90% non-condensing
 Operating Altitude:
 -1,000 to 10,000 feet above Sea level
 -305 to 3,048 meters above Sea level

Ethernet Data Throughput Speeds

10 Mbs Ethernet, 100 Mbs Fast Ethernet
 or 1000 Mbs Gigabit Ethernet supported
 (exceeds PoE standard)

Connector Type

Non-Shielded RJ-45, meets EIA 568A and 568B

Ripple and Noise*	Vp-p*
<500Hz	0.50
500Hz-150KHz	0.15
150KHz-500KHz	0.15
500KHz-1MHz	0.10
* As per IEEE802.3af Table 33-5	

Electrical Specifications and Properties

AC Power Input

Power Cord type: Removable with IEC 320-C7 connector on Single Port Injector end, North American 2-Pin on outlet end
 Power Supply: Single, Internal
 Voltage Range: 90 - 264VAC
 Voltage Rating: 100 - 240VAC
 Frequency Range: 47 - 63Hz
 Frequency Rating: 50 - 60Hz
 Input Current: 1.0A (rms) Max.
 @Voltage Range and Rating

DC Power Output

PoE Protocol: IEEE 802.3af Standard
 Power on Data Pins: 4 & 5 (+), 7 & 8 (-)
 (unused pairs)
 Output Voltage: 48VDC (+10%-0)
 Max. Power on Port: 28W (exceeds PoE Standard)
 Load: 0A (Min.) 0.35A (Max.)
 Regulation (Line/Load): ± 4%
 Efficiency: >75%
 Hold-up Time: 20mS Min. @ 240VAC Input

Thermal Output 15 BTUs per hour