KLAN-Power

LP-2535 Power over Ethernet (PoE) Single Port 'High Power/PoE Plus' Midspan Injector

- Output up to 35 Watts PoE Power continuously
- Compliant to and exceeds both IEEE 802.3af and IEEE 802.3at 'High Power/PoE Plus' Standards

Functions and Features

The LAN Power Model **LP-2535** Single Port High Power/PoE Plus Midspan Injector supports powering IP End Devices. The Single Port High Power/PoE Plus Midspan Injector adds up to 35 watts continuously at ~48 VDC to unused (nondata) wires in a standard Category 5, 5e, or 6 Ethernet cable. The LP-2535 delivers both data and power over a single standard Ethernet cable to a PoE enabled End device designed to receive both Data and Power through its RJ45 connector. The second RJ45 passes data only through to Ethernet Switch. The maximum cable distance from Ethernet Switch to end IP Device is 328 feet/100 meters.

Key Features of the Single Port High Power/PoE Plus Midspan Injector include:

- Output Wattage is up to **35 Watts** continuously
- Compliant to and exceeds IEEE 802.3af and IEEE 802.3at 'High Power/PoE Plus' Power over Ethernet Standards
- IEEE 802.3at and Class Detection
- Supports Data links at 10Mbs, 100Mbs or 1000Mbs (Gigabit Compatible)
- Data and Power carried on same Ethernet cable
- Extended Temperature operating range
- LED indicators show powering status



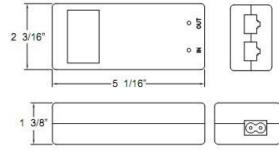
- Surge Protection with over voltage current and short circuit protected (protects the Ethernet Switch)
- Wall mounting bracket and IEC320 inlet 2-pin C8 Power Cord included
- Use with any PoE Compliant Device including:
 - o Security and Access Controls
 - o IP Security Cameras
 - o VoIP Phones
 - o Wireless LAN Access Points
 - Emerging PoE enabled Products both IEEE 802.3af and IEEE 802.3at 'High Power/PoE Plus' compliant
- Full 2 Year Product Warranty

Safety Approvals

- FCCCE
- UL/cUL

Unit Dimensions

- Length: 5 1/16" (128mm)
- Width: 2 3/16" (51mm)
- Height: 1 3/8" (35mm)
- Weight: 5.1 oz. (0.18 kg)



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AC Mains Outlet or Removable Uniteruptable PSU IEC 320-C8 Outlet 2 Pin Mains LED INDICATORS : 90 to 264 VAC Power Cord IN OFF : No AC Power connected IN ON SOLID : Blue LED on solid when AC Power connected OUT OFF : No IP End Device connected LP-2535 OUT FLASHING : Green LED will be IEEE 802.3af and flashing when an IEEE 802.3af IP End IEEE 802.3at 'HIGH Device is connected and PoE power (up to POWER/PoE PLUS' 15.4 Watts) is powering IP End Device 802.3af Compliant Compliant OUT ON SOLID : Green LED will be on 56Vdc PoE Power and solid when an IEEE 802.3at 'HIGH OUTPUT 802.3at Compliant POWER/PoE PLUS' IP End Device is Up to 35 Watts connected and PoE Power (up to 35 Watts) continuously with Class Detection is powering IP End Device 0 **OUT FLASHING MULTI-COLOR : OUT LED** OUT IN will flash Red AND Green when an IP End Device is connected but is causing a fault ПП Ш (overload, short circuit, non-PoE enabled IP Device, etc.) DATA **UTP 4 PAIR CATEGORY** POWER CABLE TIT IP PoE Enabled END DEVICE ETHERNET SWITCH 10/100 Base-T or 10/100/1000 Base-T - 100 meters/ 328 feet

APPLICATION OVERVIEW

Maximum Cable Distance from ETHERNET SWITCH to IP PoE Enabled END DEVICE

Ordering Info

Model **LP-2535** Single Port Injector High Power/PoE Plus Midspan Injector

Environmental Specifications Operating Temperature:

-4° to 104°F / -20° to 40°C at 35 Watts -4° to 131°F / -20° to 55°C at 25 Watts -4° to 140°F / -20° to 60°C at 20 Watts Non-Operating Temperature: -4° to 150° F/ -20° to 65° C Relative Humidity: 5% to 90% noncondensing 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)

Connector Type Non-Shielded RJ-45 meets EIA 568A and 568B

Electrical Specifications and Properties

AC Power Input

Power Cord type: Removable with IEC 320-C8 2 pin connector on Single Port Injector end Power Supply: Single, Internal Voltage Range: 90 - 264VAC autosensing Voltage Rating: 100 - 240VAC Frequency Range: 47 - 63Hz Frequency Rating: 50 - 60Hz Max. In-rush Current: 60A Max. at 240VAC & Max. Load

DC Power Output PoE Protocol: IEEE 802.3af and 802.3at Standards with Class Detection Power on Data Pins: 3 & 6 (+), 1 & 2 (-) Output Voltage: +56VDC (+1V/-2V) Max. Power on Port: 35 Watts-Class 4 @ 40°C (exceeds PoE Standard) Load: 10mA (Min.) 0.35A (Max.) Regulation (Line/Load): ± 5% Efficiency: 80% (typical) at Max. load, and 120VAC 60Hz, class 4 Hold-up Time: 10mS Max. load and 120VAC 60 Hz

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