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PL-AT-DR1-OEM 802.3af/at LED driver

Product Description - PL-AT-DR1 (OEM)

This LED driver is powered by Ethernet cable! You can now add LED light anywhere – without the need for 110v wiring. Bright 8 or 20 watts of long lifetime LED lighting is activated by a high signal on the SIG pin – for example form a Passive Infrared Sensor or Dusk/Dawn photocell. PoE allows power and data to be carried on Cat-5e cable, and our solution allows a LED to share one cable with another PoE device – like a Camera. Use either 802.3af or passive injectors and switches over CAT5e, CAT6 or CAT7 Ethernet network cable.

The board has connectors for either Mode A active or Mode B passive PoE. Intended for use with Cisco or similar PoE switches, the Mode A input uses active PoE to negotiate with the switch to activate power for the LED. The PoE switch supplies 48, 51 or 56 volts DC at the source location, the LED can be up to 328 ft away. A 100 cm cable with water proof connectors is available. A 10k resistor is placed across C4 keeps PoE active.

The mode B passive PoE connector allows you to attach a PoE Camera and LED from the same CAT-5e cable up to 328 ft from the source. Connect a PL-POE-Flood and PL-AT-Flood in series to cover two areas from one CAT-5 line. A 200 cm cable with female (Power and Passthru PoE in) to male (passthru PoE out) is available.

The PCB has the following jumpers a) J1 selects 802.3at (default is 802.3af) b) J2 sets the current to 800 mA (default is 650 mA)

Specifications

Power source connector

Power Protocol (Mode A)

Power input

Pinout 802.3af / 802.3at

Pinout passive PoE

Option Mode A RJ45 Connector - female Option Mode B RJ45 female in, male out

Max Power consumption

Input Current at 48v 802.3af keep alive PIR control Output Voltage

Power output

Dusk / Dawn sensor
Dusk / Dawn
Inrush limiter
Output current
Bridge PCB option
Operating Temperature

Size

ZHR 10 pin connector for cable to RJ45

802.3af class 3 for 8 watt LED 802.3at class 4 for 20 watt LED

44 to 56 volts 802.3af or 802.3at or Passive PoE Pins 1,2 and 3,6 provide power - either polarity

Pins 4,5+ and 7,8-:

0 mw standby and higher efficiency IP67 waterproof, 150cm length Power on female only, 10/100 data rate 9 watts in for 8 watts of LED light 21 watts in for 20 watts of LED light 200 ma input delivers 8 watts to LED 680 ohm resistor on 5v/ground needed 5v power, 2v or greater to turn on.

9v to 42v with 802.3af, to 50v with 802.3at a) with 802.3af max current 300 ma = 12 watts b) with 802.3at max current 700ma = 23 watts c) with passive PoE = 35 watts with 56v in Use a DPW85 or similar phototransistor

External 30k resistor and 1N4148 needed External 180k and 1 uf Capacitor needed Programmable 600 or 800 ma

Provides all external components 0°C ~ 50°C

50 x 37 x 15 mm with 40 cm cord



Use any PoE switch up to 328 ft from the LED flood light.

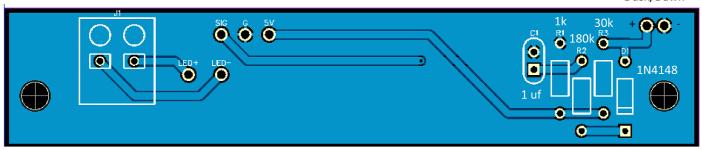


802.3af cable



passive pass thru cable

Dusk/ Dawii



add on bridge board for:

Keep Alive (R1 1k)
Slow turn on (C1 1uf, R2 180k)
Photocell current source for dusk/dawn (R3 30k, D1 1n4148) Use a DPW85 or similar phototransistor Physical mounting holes
KF246 type spring load connector