KPOE-100

IEEE 802.3af PSE Mid-span Injector

KPOE-100 TOP view

AC power adapter

KPOE-100 is an IEEE 802.3af compliant PoE PSE injector. Power over Ethernet (PoE) provides a way for network devices to be powered by their data cables rather than by separate power cords. The most popular PoE standard is the IEEE 802.3af specification, which uses 48 volts of DC power over any grade of UTP wire, including Category 3, 5, 5e, and 6. The specification is compatible with standard Ethernet UTP hardware without requiring modification. The IEEE 802.3af standard covers power sourcing equipment (PSE) and powered devices (PDs). The PSE, sometimes called an injector or power source device, puts power onto the UTP cable and the PD draws the power off. The PDs usually found are IP telephone, wireless AP, and media converters.

KPOE-100 supports both Fast Ethernet connection and Gigabit Ethernet connection and can deliver up to 15.4 Watts output power and support up to 12.9 Watts at remote PD end. For no damage to the connected PD, it is enhanced with smart design to discover compliant PD. It shuts down the power immediately when incompliance is discovered. For safety, other protections for conditions such as disconnection, overload, over-current, and short circuit are also provided to secure your network installation. So, KPOE-100 is an ideal power solution for industrial and open-office environments where power supplies are often inconveniently located.

Key Features:
• IEEE 802.3af standard compliant
• Supports both Fast Ethernet and Gigabit Ethernet
• Delivers power output up to 15.4W
• Compliant PD discovery & classification
• Power shutdown protection for incompliant PD
• Power shutdown protection for disconnection
• Power shutdown protection for overload, over-current, and short circuit
• Plug and play with no configuration required
• Supports screw mounting
• Compact design

Specifications:

IN JACK	Shielded RJ-45 Ethernet, Fast Ethernet and GbE support Cat.5, 5e, 6 support
OUT JACK	Shielded RJ-45 PSE pins: 4,5,7,8 Ethernet, Fast Ethernet and GbE support 4-pair Cat.5, 5e, 6 support Distance mid-span up to 100meters
PoE PSE	IEEE 802.3af standard PSE pin 4/5 -Positive 48VDC, Pin 7/8 -Negative 48VDC Power delivery 48V 15.4W max. at port output for a Cat.5 distance of 100 meters

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KC-350 KC-351
PoE PD 10/100TX to 100FX
media converters

KGC-352
PoE PD Gigabit Ethernet
media converters

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Protection	Incompliant PD detection, Disconnection Overload, Over-current Short-circuit, Under voltage
LED Indicators	Power status, PoE power status
Power Input	DC IN Jack for external power adapter Input voltage 48VDC, 0.4A min.
Environment	Operating Temperature: -5°C ~ 50°C Storage Temperature: -20°C ~ 80°C Relative Humidity: 5% ~ 95% non-condensing
Dimension	50 x 80 x 21mm (WxDxH)
Approval	FCC Class B, CE mark Class B
Power Supply	External type AC to 48VDC adapter Rated input voltage 100~240 VAC Rated input frequency 50/60Hz Output voltage 48VDC (+/-5%) Output current 0.75A max. IEC320 AC power cord (attachable)