# POE-XXI

## Power-Over-Ethernet

## POWER-OVER-ETHERNET

Power Supply / Inserter

The POE-xxi is an advanced power supply / power inserter. The power supply is autoranging on the input and has a regulated voltage output. It has overload and short circuit protection in addition to Ethernet surge suppression built-in. The POE-xxi is not a proprietary unit. It will function with any equipment that is compliant with the IEEE 802.3af POE standards. For all "i" models, the power is supplied on ethernet pins 4/5 (V+) and 7/8 (V-). For the "iR" models, the power is supplied on Ethernet pins 4/5 (V-) and 7/8 (V+). The POE-xxi comes complete with a standard North American 115 VAC power cord. International cords are available upon request. A Current Indicator (-CI) model is available. The LED will be AMBER until >35 mA current flows to the end device which will turn the LED to GREEN. This is a good way to remotely monitor the connection between the Power-Over-Ethernet (POE) and the end device, and to indicate that the end device is turned on. To order this model, add a "–CI" suffix to the standard part number.

### Using POE to power remote devices has several advantages including;

- The power supply can be centrally located where it can be attached to an uninterruptible power supply
- The user has the ability to easily power on reset the attached equipment from a remote location
- There is no need to run additional power cabling to the device as power can be supplied over the CAT5 ethernet cable

## FEATURES AND BENEFITS

- Carrier class" power over ethernet system
- Auto ranging power supply/ inserter
- Built-in Ethernet surge protection to prevent equipment damage
- Overload and short circuit protection
- Minimum cross-talk and insertion loss
- Advanced switching technology – runs cool
- Powers clients which accept power on unused Ethernet pins 4,5,7,8
- FCC and CE approved
- Current indicator (CI) option available

## APPLICATIONS

- Remote routers, access points and bridges
- Remote networking equipment
- SOHO equipment
- IP camera systems
- 400 MHz to 10 GHz systems
- IP phone systems

| POE-XXI POWER SUPPLY/INJECTOR | |
|---|---|
| Input Voltage | 90 – 264 VAC @ 47 – 63 Hz |
| Input Current | 0.3 A @ 120 VAC, 0.2 A @ 230 VAC |
| Inrush Current | <15 A peak @ 120, VAC <30 A peak @ 230 VAC |
| Efficiency | 70% Min. |
| Output Voltage | POE-48i 48 VDC @ 0.35 A<br>POE-24i 24 VDC @ 0.8 A<br>POE-24iR 24 VDC @ 0.8<br>A POE-18i 18 VDC @ 0.9<br>A POE-12i 12 VDC @ 1.3 |
| Output Ripple | 1% Max |
| Switching Frequency | 200KHz Typ |
| Line Regulation | +/- 0.5% |
| Load Regulation | +/- 1% |
| Operating Temperature | -10 to +60°C |
| Storage Temperature | -20 to +85°C |
| Operating Humidity | 5% to 90% non condensing |
| Size (L x W x H) | 3.25" x 3" x 1.5" (83 x 76 x 38mm) |
| Weight | 5.2 oz ( 147 gm) |
| AC Connector | IEC-320 C6 (Supercom SC-14) |
| Data IN Conn. | RJ45 Shielded Socket |
| Data/POE OUT Conn. | RJ45 Shielded Socket |
| LED | (Amber) Green |
| Surge Protection | Common Mode |
| Clamping Voltage | 11 V Data, 775 V Power |
| Max Surge Discharge Current | 1200 A (8/20 uS) Power |
| Peak Pulse Current | 36 A (10/1000 uS) Data |
| Shunt Capacitance | <5 pf Data |
| Response Time | <1 nS |

| COMPLIANCE | |
|---|---|
| IEEE | 802.3af POE Standard Mode B |
| EMI | EMI EN55022 ( CISPR22) class B Meets CE |
| EMS | EN61000-4-2,3,4,5,6,8,11 |

## SYSTEM ORDERING

**POE-48i**
48 VDC @ .35 A POE Power Supply / Inserter
**POE-24i**
24 VDC @ .8 A POE Power Supply / Inserter
**POE-18i**
18 VDC @ .9 A POE Power Supply / Inserter
**POE-12i**
12 VDC @ 1.3 A POE Power Supply / Inserter
**POE-24iR Reverse Polarity**
24 VDC @ .8 A POE Power Supply / Inserter (Pins 4/5 V-, Pins 7/8 V+)

*All include AC Power Cord

## NOTES

•All shipments F.O.B. Schaumburg, IL 60173


### TE TECHNICAL SUPPORT CENTER

| | |
|---|---|
| USA: | +1 (800) 522-6752 |
| Canada: | +1 (905) 475-6222 |
| Mexico: | +52 (0) 55-1106-0800 |
| Latin/S. America: | +54 (0) 11-4733-2200 |
| Germany: | +49 (0) 6251-133-1999 |
| UK: | +44 (0) 800-267666 |
| France: | +33 (0) 1-3420-8686 |
| Netherlands: | +31 (0) 73-6246-999 |
| China: | +86 (0) 400-820-6015 |

### te.com





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