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## 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 which 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 come complete with a standard North American 115VAC power cord. International cords are available upon request. A Current Indicator (-CI) model is available. The LED will be AMBER until >35mA 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 POE and the end device and indicate that the end device is turned on. To order this model add a "-CI" suffix to the standard part number.

Using power over ethernet 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.

For sales information:

Telephone 800-323-3757

E-Mail [sales@pacwireless.com](mailto:sales@pacwireless.com)

or visit: [www.pacwireless.com](http://www.pacwireless.com)

### 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
- 400MHz to 10GHz systems
- IP phone systems

## Specifications

POE-xxi Power Supply/Injector	
Input Voltage	90 – 264VAC @ 47 – 63Hz
Input Current	0.3A @ 120VAC 0.2A @ 230VAC
Inrush Current	<15A peak @ 120VAC <30A peak @ 230VAC
Efficiency	70% Min.
Output Voltage	POE-48i 48VDC @ 0.35A POE-24i 24VDC @ 0.8A POE-24iR 24VDC @ 0.8A POE-18i 18VDC @ 0.9A POE-12i 12VDC @ 1.3A
Output Ripple	1% Max
Switching Frequency	200KHz Typ
Line Regulation	+/- 0.5%
Load Regulation	+/- 1%
Operating Temperature	-10 to +60 deg C
Storage Temperature	-20 to +85 deg 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	5.2oz (147gm)
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	11V Data, 77.5V Power
Max Surge Discharge Current	1200A (8/20uS) Power
Peak Pulse Current	36A (10/1000uS) Data
Shunt Capacitance	<5pf Data
Response Time	<1nS

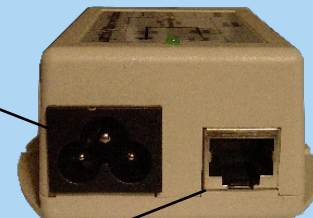
## Notes:

- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty

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*Specifications subject to change without notice.*

Power Supply Inserter AC Power IN  
(90-264VAC)



Power Supply Inserter Data IN



Power Supply Inserter Data/POE  
OUT

## Compliance:

EMI	EN55022 ( CISPR22) class B Meets CE
EMS	EN61000-4-2,3,4,5,6,8,11

## System Ordering:

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

\* All include AC Power Cord

## NOTE:

Add a "-CI" suffix to the std. part number for the current indicator option

