



## PoE Kit

The Power over Ethernet (PoE) Kit is made up of an advanced Injector / Splitter. The Injector is auto-ranging on the input and has a regulated voltage output. The PoE Kit has overload and short circuit protection in addition to Ethernet surge suppression built-in, which will shut down power immediately when a short circuit is detected without any damage to the equipment. The PoE Kit is not a proprietary unit and will function with any equipment which is compliant with the IEEE 802.3af PoE standards. The power is supplied on Ethernet pins 4/5 (V+) and 7/8 (V-). The PoE Kit comes complete with a set of 4 AC power cords for use in most countries and a 12V DC power plug with a 2 or 3 pin industrial connector that connects directly to a ProSoft RadioLinx radio. The LED will be Amber until a >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. The operating temperature for the PoE Kit is rated at -10° to +60° C (14° to 160° F) and up to 90% humidity, so they perform reliably in outdoor weatherproof enclosures.

### Features and Benefits

Using Power over Ethernet (PoE) to power remote devices has several advantages including:

- "Carrier Class" Power Over Ethernet System.
- Power can be supplied over long distances, up to 300 feet.
- Power can be available wherever network access is available.
- 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.
- Used for remote mounted radios to save on cost of coax and reduce RF losses.
- Built-in Ethernet Surge protection to prevent equipment damage.
- Overload and Short Circuit protection.

### How to Contact Us: Sales and Support

All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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## Specifications

### PoE48I-12S Injector

Input Voltage	90 - 264VAC @ 47 - 63Hz
Supply Current	0.3A @ 120VAC 0.2A @ 230VAC
Inrush Current	<15A peak @ 120VAC <30A peak @ 230VAC
Efficiency	70% Min.
Output Voltage	48VDC @ 0.35A
Output Ripple	1% Max.
Switching Frequency	200KHz Typ
Line Regulation	+/- 0.5%
Load Regulation	+/- 1%
Operating Temperature	-10° to +60° C (14° to 149° F)
Storage Temperature	-20° to +85° C (-4° to 185° F)
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 (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, 775V Power
Max Surge Discharge Current	1200A (8/20uS) Power
Peak Pulse Current	36A (10/1000uS) Data
Shunt Capacitance	<5pf Data
Response Time	<1nS

### PoE48I-12S Splitter

Input Voltage	90 - 264VAC @ 47 - 63Hz
Output Voltage	12VDC @ .67A
Output Ripple	1% Max.
Switching Frequency	200KHz Typ
Line Regulation	+/- 0.5%
Load Regulation	+/- 1%
Isolation Voltage	1000VDC
Isolation Resistance	100M Ohms (min)
Input Set Class Resistance	25K Ohms
Operating Temperature	-10° to +60° C (14° to 149° F)
Storage Temperature	-20° to +85° C (-4° to 185° F)
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	4.6 oz (130gm)
Data/PoE IN Conn.	RJ45 Socket
Data OUT Conn.	12" Cable with RJ45 Plug
VDC OUT Conn.	12" Cable with 2 or 3 pin industrial connector

## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

## Ordering Information

To order this product, please use the following:

PoE48I-12S-2	Used with the following RadioLinX products: RLX-IH RLX-IHW RLX-IFH9E RLX-IFH24E
PoE48I-12S-3	Used with the following RadioLinX products: RLX-FHE RLX-FHS RLX-FHES

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