Product Overview

The Powerline Interface Powerpack (PIP-TS) is an addressable powerline interface module and a power supply all in one unit. It is designed to provide both the 12VDC power and the UPB™ communication capabilities for the TouchScreen Timer (TSTD or TSTW) to control lights, appliances, and set heating/air conditioning systems remotely over the existing powerline.

UPStart Setup software will allow the PIP-TS to be added to any UPB network as well as perform communication testing or adjust its receive sensitivity in noisy environments.

The PIP-TS is simple to install – just plug it in to any wall outlet and connect a CAT-5 cable (up to 50’ long) between it and the TouchScreen Timer.

PCS is the leading developer of Universal Powerline Bus UPB™ technology. The PIP-TS incorporates the very latest Gen II advancements, PowerPulse, a dual-transmitter circuit which allows every transmission signal to have 50% or more power to even further improve communication reliability.

Although specifically designed for the PulseWorx TouchScreen Timer, the PIP-TS will also be used by developers of software or hardware-based automation controllers, as the standard UPB™ powerline interface device and power supply. This will allow any other device that has an RS-232 serial port and meets similar power requirements to be UPB compliant.

The PIP-TS has an output of 12VDC unregulated at 500mA maximum. It operates at 4800 baud and communicates the exact same simple ASCII-based command/report protocol found in the Message Mode of our PIM-R Powerline Interface Module. This enables a simple solution for developers to become a PulseWorx Partner and create UPB™ Enabled devices without having to become a Licensee or embed a chip and bring high voltage into their device.

For those developers who do not need a power supply, PCS also offers a new Addressable Powerline Interface Module (PIM-A) which performs the same function as the PIP-TS but without the power supply.

Features

- **Addressable Interface**
  Provides Unit ID for any controller in UPStart

- **Developer Friendly**
  UPB communication interface and 12VDC in one unit

- **Improved Communication**
  PowerPulse Dual-Transmitter circuitry 50% more transmitting power

- **Simple Installation**
  Just plug into an electrical outlet

- **Feedback**
  True two-way UPB communication to touchscreen or processor

- **Adjustable Receive Sensitivity**
  If powerline noise is severe the sensitivity can be adjusted to filter out most noise

- **LED Power Indicator**
  LED used for night-light, programming and powerline signal monitoring

- **Perfect For Retrofit**
  Transmits signals over existing power wiring so there is no need for expensive hard wiring.

- **UPStart Configurable**
  Use UPStart to add PIP-TS or PIM-A to the network, perform communication tests and adjust sensitivity

- **5-year Limited Warranty**
  Backed by an industry leading Limited Warranty to be free from original defects in materials and workmanship for a period of five years from the date of purchase.

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Ordering Information

- Part Number
  PIP-TS  Powerline Interface Powerpack
  PIM-A  Powerline Interface Module- Addressable

Installation

- Plug into 120VAC electrical outlet

  - RJ-45 Pin Configuration
    1 = Transmit
    2 = V+ (12VDC)
    3 = V+ (12VDC)
    4 = Gnd
    5 = V+ (12VDC)
    6 = Gnd
    7 = Gnd
    8 = Receive

Additional Information

- Warranty
  Five-Year Limited Warranty
- UL/ETL Listing
  Pending

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<th>PIP-TS</th>
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<td>Baud, Bits, Stop Bit, Parity</td>
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<tr>
<td>Input</td>
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