









PIP-TS — Powerline Interface Powerpack

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.



Model PIM-A

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

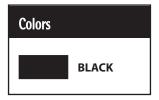
PIM-A Powerline Interface Module- Addressable

Installation

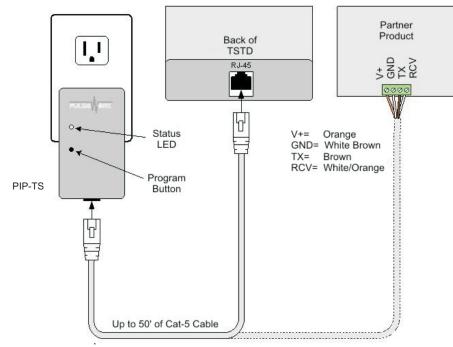
- Plug into 120VAC electrical outlet
- RJ-45 Pin Configuration
- 1 = Transmit
- 2 = V + (12VDC)
- 3 = V + (12VDC)
- 4 = Gnd
- 5 = V + (12VDC)
- 6 = Gnd
- 7 = Gnd
- 8 = Receive

Additional Information

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



Wiring Diagram



Specifcations	PIP-TS
Baud, Bits, Stop Bit, Parity	4800, 8, 1, None
Input	120/VAC 60 Hz .05A
Output	12VDC Unregulated 500mA
Mounting	3-Prong Plug with Ground
Dimensions	4" x 2 1/8" x 1 3/8"
Weight	.56 oz.
Operating Temp	-40 F to 104 F
UPC Code	81197601-TBD





