

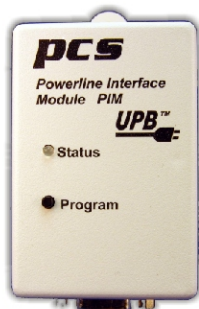


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# Powerline Interface



## Product Overview

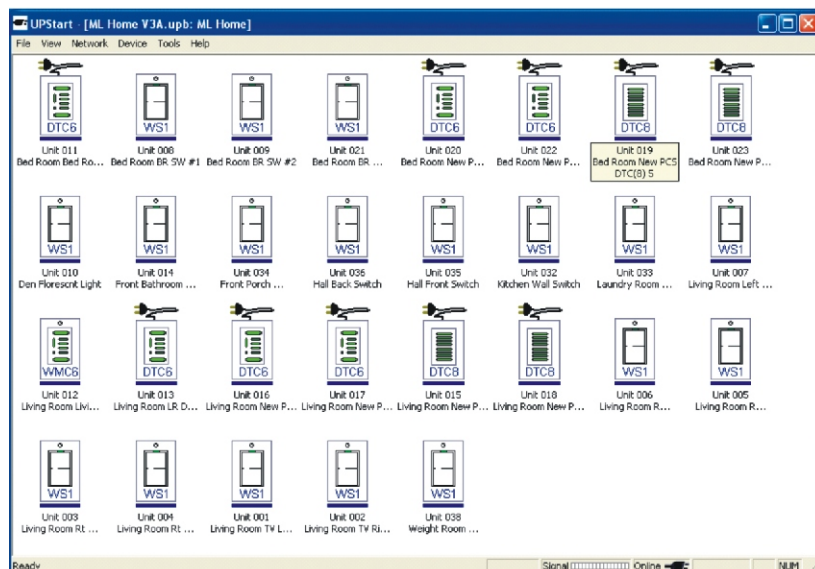


**Powerline  
Interface  
Module (PIM)**

**Powerline Control Systems** presents its UPB™ Powerline Interface Module (PIM) - the perfect device for interfacing your PC or dedicated controller to the powerline. The PIM, which is available in both **RS-232** and **USB** versions, communicates on the powerline using PCS's patented **UPB™** two-way powerline communication technology. UPB™ is the perfect **low cost alternative to hard-wired and RF** control technologies, requiring **no new wires** and providing **ultra-reliable communications** between transmitters and receivers.

The PIM can be used to both transmit and receive UPB™ messages from the powerline. The PIM implements a **simple serial message set** that is fully documented on the PCS website. It can be run in two different modes of operation depending on the level of information you require from the powerline. The PIM communicates to the host computer device via a standard serial cable (included).

The PIM is already the device of choice for interfacing PCS's **UPStart** UPB setup software to the powerline. UPStart is a free Windows® based application designed to communicate with and configure your Universal Powerline Bus devices over the existing house electrical wiring.

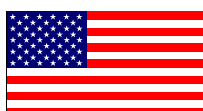


**The UPStart UPB™ Setup Software**

## PIM Features

- **Two-Way Powerline Communication**  
PIMs contain both a UPB transmitter and a UPB receiver giving the host software the ability to perform true two-way powerline communication
- **Ultra-Reliable Powerline Communication**  
UPB™ is over 100 times more reliable than existing powerline products
- **UPB™ Noise Rejection**  
Special firmware algorithms reduce the unwanted effects of powerline noise
- **Simple Serial Message Set**  
Simple, well-documented, ASCII-based message set makes it easy to write software drivers and tap into the power of UPB™
- **Two Modes Of Operation**  
The PIM has a Message Mode in which it informs the host when a valid UPB message is received from the powerline. It also has a Pulse Mode in which it informs the Host of every UPB Pulse that is on the powerline
- **Two Types Of Serial Interfaces**  
Two types of PIMs are available: one that interfaces to a standard RS-232 serial (COMM) port and one that interfaces to a standard USB port
- **LED Status Indicator**  
Used to indicate status of powerline communications and to indicate mode changes
- **Easy Installation**  
Just plug into standard wall outlet then connect serial cable between PIM and computer
- **Durable Plastic Case**  
PIMs are encased in a durable plastic case about the size of a small wall transformer
- **Low Cost Home Automation**  
UPB™ based products are a fraction of the expense of hardwired and RF products
- **PCS Reputation**  
The PCS reputation is unmatched in the Home Automation market representing superior quality, high reliability, and excellent customer service

All PCS products are completely **Made in USA** and carry a **five-year limited warranty**.  
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UPB is a trademark of Powerline Control Systems.



**Made in USA**

## Ordering Information

- **Part Number**  
**PIM-R** (RS-232 Interface)  
**PIM-U** (USB Interface)

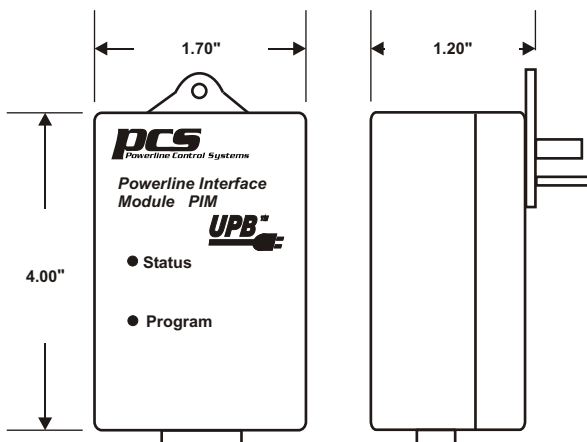
## Installation

- **Mounting**  
Plugs into standard electrical receptacle. Do not plug into filtered power strip or uninterruptible power supply (UPS).
- **Connection**  
Connect male end of supplied cable to the PIM serial connector. Connect the female end of supplied cable to the host computer's serial or USB port connector.

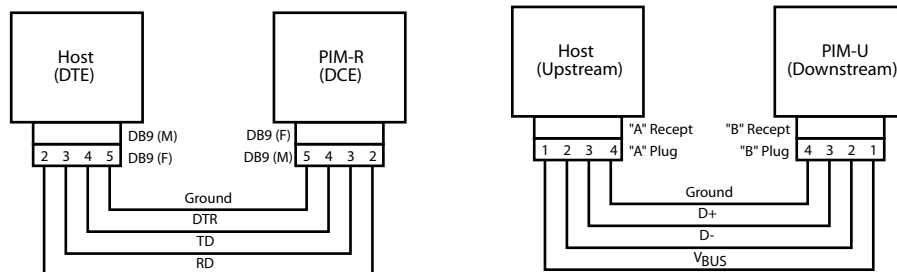
## Additional Information

- **Warranty**  
Five-year Limited Warranty
- **UL Listing**  
Listed under UL60950 for Information Technology Equipment
- **Data Terminal Ready**  
The PIM-R requires the DTR signal to be a logic High from the Host.

## Dimensions



## Cable Diagram



Model Number	PIM-R	PIM-U
Interface Type	RS232	USB
Baud, Bits, Stop Bit, Parity	4800, 8, 1, None	Low Speed
Input Power	108-132 VAC, 60 $\pm$ 3 Hz	108-132 VAC, 60 $\pm$ 3 Hz
Bi-Color Status LED	Yes	Yes
Program Switch	Yes	Yes
Serial Connection	Standard DB9 Female	Standard USB
Powerline Connection	3-Prong Plug with Ground	3-Prong Plug with Ground
Dimensions	1.7 in x 4 in x 1.2 in	1.7 in x 4 in x 1.2 in
Weight	3.6 oz	3.6 oz

Patented. Made in USA.

