



FUNCTION

The Powerline Interface Module – Ethernet is a Powerline Interface Module much like our PIM-R RS-232 version that contains an IP Web server. This all-in-one device makes it easy to enable UPStart Configuration Software or other IP based device to communicate with a UPB network and devices via a hardwired or wireless LAN network or even over the internet.

The PIM-IP is simple to install – just plug it in to any standard 120VAC wall outlet and connect a CAT-5 cable between it and a network. The long distance capability of a network and internet makes it possible to locate the PIM-IP virtually anywhere on site. With standard port forwarding the PIM-IP can even be securely accessed from outside the local network for remote programming or the use of smart phones or tablets with the appropriate application. No additional wiring is required and no radio frequency signals are used for communication.

IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Keep away from water. If the product comes in contact with water or other liquid, turn off the circuit breaker and unplug the product immediately.
3. Never use products that have been dropped or damaged.
4. Do not use this product outdoors.
5. Do not use this product for other than its intended purpose.
6. Do not cover this product with any material when in use.
7. This product uses a grounded outlet to reduce the risk of electric shock. These plugs and sockets fit only one way. If they do not fit, consult an electrician.
8. SAVE THESE INSTRUCTIONS.

INSTALLATION

The PIM-IP is designed for indoor use with a router or hub connected to a network. To install the PIM-IP module follow these steps:

1. Connect an Ethernet cable (sold separately) between the PIM's RJ45 connector and any open port of the router, hub or network.
2. Plug the PIM-IP into any grounded wall outlet. The Status LED on the front of the unit should start blinking and then stay solid blue.
3. The two Network LED's on the RJ45 connector should be solid orange and blinking green.

Status LED Indications

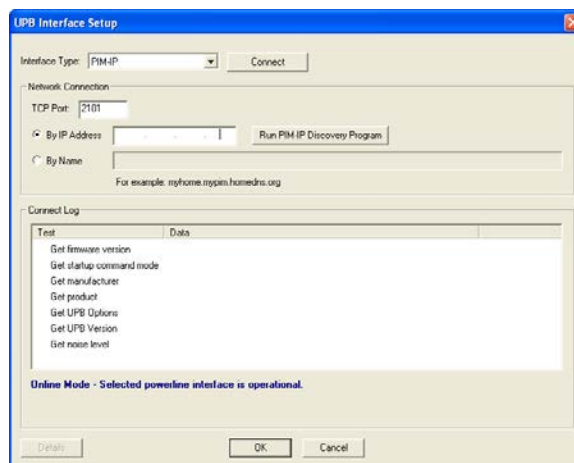
The PIM-IP contains a bi-color (blue/red) Status LED that will also give a visual indication of what UPB information is currently on the powerline.

- Blue: No UPB Signal
Magenta: Received a UPB Message
Red: Transmitted a UPB Message

CONFIGURATION

The PIM-IP is the perfect interface device for use with PCS' UPStart Configuration Software. UPStart allows you to easily configure all of your PulseWorx System devices. The UPStart User's Guide explains how to configure your system using UPStart. (www.pcslighting.com)

To use the PIM-IP with UPStart select **Tools** → **Powerline Interface Connection** to bring up the UPB Interface Setup dialog.

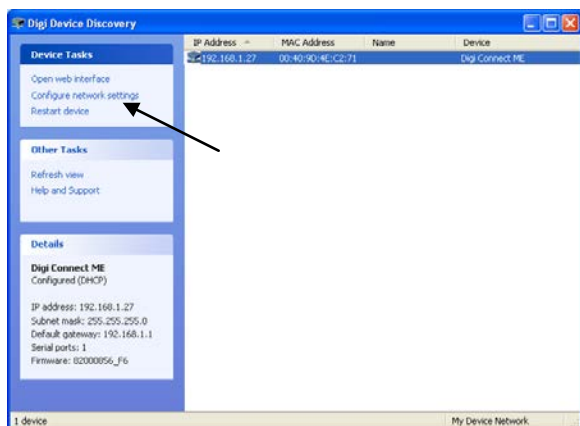


Select the "PIM-IP" as the **Interface** and then press the "**RUN PIM-IP Discovery Program**" button. UPStart will automatically run a Device Discovery application to help locate the PIM-IP on your network. **NOTE: The PIM-IP is shipped in DHCP mode.**

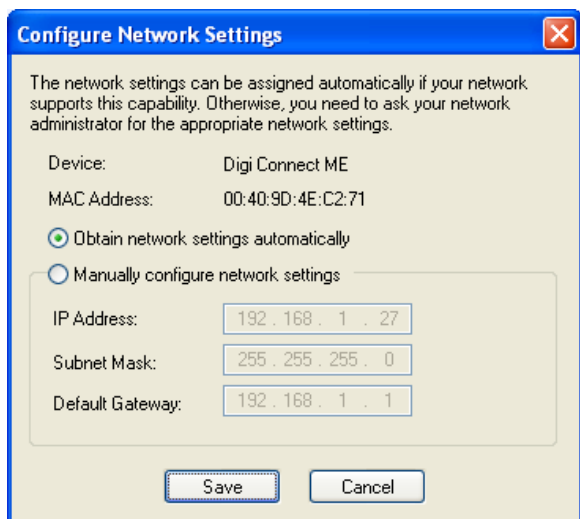
If the PIM-IP does not show up in the window, Press "Refresh View" until it finds the PIM-IP. If it doesn't then something is wrong with the network or possibly the PIM-IP.

Setting the IP Address

Once a unit is located, select “Configure network settings”.



You now have a choice to leave the device in DHCP mode or use the assigned IP address or set you own address.



Enter the IP address, subnet mask, and default gateway to configure the PIM-IP on your network. **Note: We recommend that it is outside of DHCP pool so its network address stays the same.**

LIMITED WARRANTY

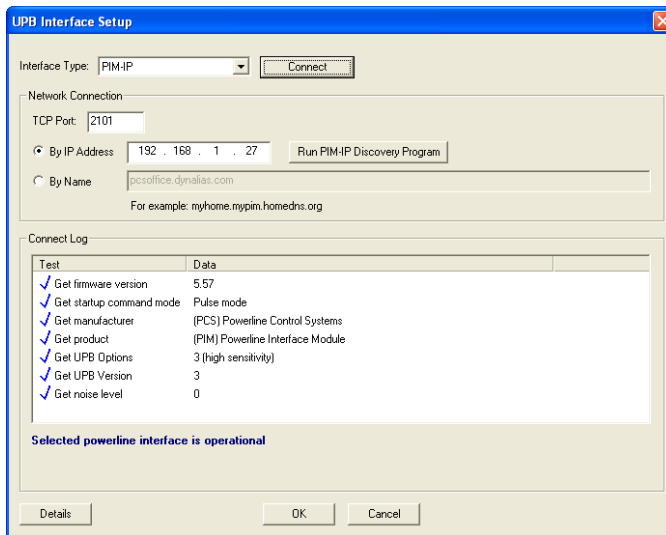
Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in materials and workmanship for a period of five years from the date of purchase. Refer to the warranty information on the PCS website (www.pcslighting.com) for exact details.

OPERATION

Now that you know or have set the IP address of the PIM-IP you can connect to UPStart.

Fill in the TCP Port to 2101

Fill in the IP address in the By IP Address Window and click the Connect button



If the communication path is operational then UPStart reads the firmware version and other items of your PIM and displays what was read.

Once you are connected the “Selected powerline interface is operational” will be visible.

Close the Interface select dialog with OK once you have connected and verified operation of the PIM.

FACTORY HARD RESET

This procedure will set most parameters back to the defaults including any Static Address set back to DHCP address mode.

There is a small hole on the bottom of the PIM-IP where a pin or small paper clip can be used to press a tact switch on the circuit board.

PROCEDURE:

- 1) Un-power unit
- 2) Press and hold reset switch
- 3) Power-on unit while holding down reset switch
- 4) Wait a few seconds and Green Ethernet LED will start blinking 1-5-1 pattern over and over
- 5) While **power is still applied** release reset switch
- 6) Un-power and repower unit