## Using the PIM-IP with your own applications

The PIM-IP is a regular serial PIM with the serial port replaced with a network port. Before considering its use in your application, consider these features and potential problems.

- Because the PIM-IP is exactly a serial PIM with a TCP/IP connection, very little of an existing application that communicates with a serial PIM needs to be modified. The only changes necessary are the method used to open a network port – changed from opening a local communications port – and the method to send and receive from that network port – changed from reading and writing to a local communications port.

- There is no security on the connection. If the PIM-IP is exposed in a network environment anyone who has the IP address and port can connect to it and send and receive UPB commands in your UPB installation.

- The IP address of the PIM-IP can be discovered by the standard Digi-Connect discovery tool available for download from their web site and is shipped with each UPStart install.

Because of these potential security risks, if possible, applications that need a network connection to a PIM for sending and receiving UPB messages should target the PulseWorx Gateway (PGW) and not the PIM-IP.

If you are working with the PIM-IP, refer to these application notes on the PCS web site:

- Using the PIM from your own application to send and receive UPB messages
- Using the PulseWorx Gateway from your own application to send and receive UPB messages

Aside from these technical notes that describe the PIM interface and UPB messages, the only implementation detail specific to the PIM-IP is how to communicate over a network connection. That is dependent upon your application implementation language and is beyond the scope of PCS app notes.

##end##