

Mapping Inputs to Multiple Output on the 12 I/O Devices

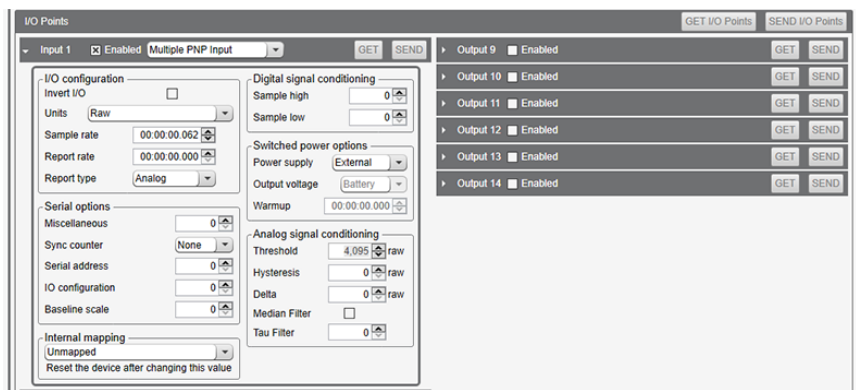


Mapping Inputs to Multiple Outputs on the 12 IO Performance Radios

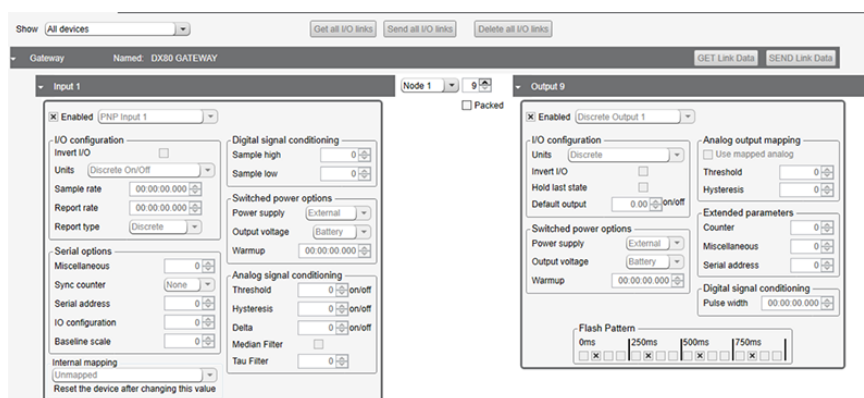
The Performance P7 and P8 radios can create six copies of the input register, which allows you to send the inputs to up to six different locations. Refer to Banner's Technical Note about Bit Packing Information into Registers for details about how the bits are arranged in the register.

The P7 and P8 Nodes use the Threshold parameter to set up a bit mask for which Input points are represented in the I/O register. Set the threshold to 4095 to the load the register with all 12 inputs every time. There is no harm in copying inputs that you do not use later. To use this feature, follow these steps:

1. Connect the Gateway to your computer and launch the User Configuration Software v4.
2. Go to the **Configuration** screen.
3. Click the arrow to the left of **Gateway** to display the Gateway's parameters.
4. Click **GET I/O Points**.
The I/O parameters for the Gateway download from the network and display in the configuration software.
5. Verify Input 1 is enabled and defined as **Multiple PNP Input (P8)** or **Multiple NPN Input (P7)** in the drop-down box.
6. Click the arrow next to Input 1 to display that input's parameters.
7. In the **Analog signal conditioning** section, set the **Threshold** to 4095.



8. Repeat steps 5 through 7 for I/O 2 and any additional I/O points that your application requires.
9. Click **SEND I/O Points** to write these changes to the Gateway.
10. Go to the **Linking > Linking Configuration** screen to link the Input Registers you just created to multiple endpoints.



11. Click the arrow next to the Gateway to display the Gateway's parameters.
12. Click the arrow next to Input 1 to display the parameters.
13. Use the drop-down list to select which Node to link the Gateway's Input 1 to. Repeat for all inputs that were set up on this Gateway.

Remember that outputs are I/O points 9 through 14. For this example, we are using I/O point 9.

14. Click **Send all I/O Links** to write the changes to the Gateway.
15. Verify the connection using the **Register View** screen.