Connecting An Analog Sensor to the XIG

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xig
iDigi
Digi
ConnectPort X2
XBee
PRO S2B

Activity 1

1. Make sure your XBee design is still connected correctly!

2. Log into http://developer.idigi.com

   username: itcp

   password: marconi-lab

Activity 2 - Part 1

1. Click on the "Web Services" link
2. Click on "SCI Targets"
3. Add the gateway as a target
4. From the drop-down choose Examples->SCI->Python Callback

Activity 2 - Part 2

1. Paste this message:

```
<sci_request version="1.0">
  <send_message>
    <targets>
      <device id="00000000-00000000-00409DFF-FFxxxxxx"/>
    </targets>
    <rci_request version="1.1">
      <do_command target="xig">
        <at hw_address="00:13:a2:00:40:yy:yy:yy!" command="IS"  />
      </do_command>
    </rci_request>
  </send_message>
</sci_request>
```

2. Ensure hw_address matches your XBee!

Activity 2 - Part 3

1. Click "Send"
2. Double click on result under "Web Service Responses"
3. Ensure data resembles correct data from your TMP36 attached to your XBee

Activity 2 - Part 4

1. Last, modify the iDigi SCI command to read the "IR", "DH", and "DL" values to ensure the XBee is sending data to the gateway.

   IR > 0 (and set to something like 2000)

   DH = 0

   DL = 0

Checking the Configuration

```
<sci_request version="1.0">
  <send_message>
    <targets>
      <device id="00000000-00000000-00409DFF-FFxxxxxx"/>
    </targets>
    <rci_request version="1.1">
      <do_command target="xig">
        <at hw_address="00:13:a2:00:40:yy:yy:yy!" command="IR"  />
        <at hw_address="00:13:a2:00:40:yy:yy:yy!" command="DH"  />
        <at hw_address="00:13:a2:00:40:yy:yy:yy!" command="DL"  />
      </do_command>
    </rci_request>
  </send_message>
</sci_request>
```

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