



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





iDigi® Gateway Development Kit
Getting Started Guide
Wireless WAN Version

June 8, 2011
90001253_A

©2011 Digi International Inc.
All rights reserved.

Digi, iDigi, Digi International, the Digi and iDigi logos, ConnectPort, Digi ESP, iDigi Dia, XBee, Digi XBee Smart Plug, iDigi Manager Pro, iDigi Web Services API, and a Digi International Company are trademarks or registered trademarks of Digi International, Inc. in the United States and other countries worldwide. All other trademarks are the property of their respective owners.

Information in this document is subject to change without notice and does not represent a commitment on the part of Digi International.

Digi provides this document “as is,” without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of fitness or merchantability for a particular purpose. Digi may make improvements and/or changes in this manual or in the product(s) and/or the program(s) described in this manual at any time.

This product could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes may be incorporated in new editions of the publication.

Using this Guide

Contact Information

Please always check the product specific section on the Digi support website for the most current revision of this document: <http://www.digi.com/gatewaydevelopmentkit>.

For more information about your Digi products, or for customer service and technical support, contact Digi International.

To contact Digi International by	Use
Mail	Digi International 1101 Bren Road East Minnetonka, MN 55343 U.S.A.
World Wide Web	http://www.digi.com/support
Telephone (US)	(952) 912-3444 or (877) 912-3444
Telephone (other locations)	+1 (952) 912-3444 or (877) 912-3444

Conventions used in this Guide



This icon indicates a step that has the potential to be troublesome. Further information regarding items marked with this symbol can be found in Appendix D: Troubleshooting on page 79.



This icon indicates a hint, or concept that is learned.



This icon indicates that a goal of the kit has been completed.



This icon indicates a warning of the potential for confusion or danger.

Contents

Using this Guide	3
Contact Information.....	3
Conventions used in this Guide	3
Introduction to the iDigi® Gateway Development Kit – Wireless WAN Version.....	7
Goals of the Kit.....	7
Requirements of the Kit.....	7
System Requirements	7
Web Browser Requirements.....	7
Additional Requirements	7
Part 1: Setup your Digi® Gateway Development Kit.....	8
Step 1: Kit Preparation	8
Identify Your Kit Components.....	8
Step 2: Unpack and Set up the ConnectPort X4.....	9
Step 3: Configure the ConnectPort X4	10
Configuring the ConnectPort X4 IP Gateway Priority	11
Configuring the Ethernet Interface	12
Viewing IP Address Information	13
Viewing Ethernet Statistics	13
Step 4: Setup the XBee Smart Plug and XBee Sensor	14
Step 5: Connect the ConnectPort® X4 to iDigi®	15
Add the ConnectPort X4® to your iDigi® Inventory	17

Step 6: Install the Digi ESP™ for Python Development Environment	19
Step 7: Create your first iDigi® Dia Project	22
Step 8: Perform an iDigi Web Services API™ Request	43
Step 9: Using the iDigi® Gateway Development Kit Demonstration Application	50
Getting Familiar with the iDigi Gateway Development Kit Demonstration Application	52
XBee® Sensor:	52
XBee Smart Plug™ (for US kits only):	53
Logged Data:	54
Part 2: Learn More	57
iDigi® Dia & iDigi®	57
Going to Market?	57
Digi ESP™ for Python	58
Digi's® Gateway Products	63
Gateway Functionality	63
Programmability	63
XBee® Sensor	64
XBee Smart Plug™ (or XBee® Wall Router in non-US kits)	64
Digi's® ZigBee RF Modules	64
Appendix A: Configuring for GSM/Edge Cellular Networks	65
Step 1: Inserting the SIM Card(s)	65
Step 2: Configuring the Cellular Interface	66
Appendix B: Configuring for CDMA Cellular Networks	68
CDMA Cellular Configuration Example (Verizon)	68

CDMA Cellular Configuration Example (Sprint)	72
Appendix C: Configuring for WiMAX Networks	75
Step 1: Connecting to the ConnectPort X4 Home Page	75
Step 2: Configuring the Wireless WAN Interface for WiMAX Networks	76
Step 3: Viewing the WiMAX Connection Status.....	78
Appendix D: Troubleshooting	79
XBee® devices fail to join the ConnectPort X4's XBee® network.....	79
Is the ASSC LED solid green?	79
Is the ASSC LED blinking green?.....	79
iDigi Manager Pro™ does not discover your ConnectPort® X4	80
iDigi Manager Pro™ lists the ConnectPort® X4 as 'Disconnected'	82

Introduction to the iDigi® Gateway Development Kit – Wireless WAN Version

Thank you for purchasing an iDigi Gateway Development Kit. The kit is designed to make it easy to setup an XBee network, upload a custom iDigi Dia application, and provide seamless connectivity to the iDigi Cloud for web services integration to standard business applications over the Internet. Before you start working with the kit, let's cover some basics.

Goals of the Kit

As you go through the steps in this kit, you will:



1. Configure the Wireless WAN interface of the ConnectPort X4.
2. Create an iDigi developer account on the iDigi M2M operating Cloud.
3. Setup and configure the physical elements of an XBee wireless network and understand how the network is managed through a ConnectPort X4 gateway.
4. Use the Digi ESP for Python IDE to build, download, and launch an iDigi Dia application for your ConnectPort X4 gateway, then interact with the application in a realistic setting.
5. Use the iDigi Manager Pro Web Services Console to send a web service request to the ConnectPort X4 retrieving the current XBee devices' sensor readings.
6. Use the iDigi Gateway Development Kit Demonstration Application to understand how an Enterprise application could use the iDigi Web Services API to monitor the data gathered by the XBee devices' sensors.

Requirements of the Kit

System Requirements

To install the software mentioned in the Getting Started Guide, you will need a PC running Microsoft Windows XP, Vista or Windows 7.

Web Browser Requirements

Microsoft Internet Explorer 7.0 or newer

Google Chrome 4.0 or newer

Mozilla Firefox 3.0 or newer

Additional Requirements

This Getting Start Guide assumes a scenario where there are no other XBee wireless devices in the area (other than the ones provided with this kit) and that the local network has an Internet connection.



Note: If other XBee networks are present and open for joining, the XBee Sensor and XBee Smart Plug may join the wrong network. Please refer to the “XBee devices fail to join the ConnectPort X4's network” section of Appendix D: Troubleshooting on page 79 for more information.

Part 1: Setup your Digi® Gateway Development Kit

Step 1: Kit Preparation

Identify Your Kit Components

Carefully unpack and verify the contents of your kit.

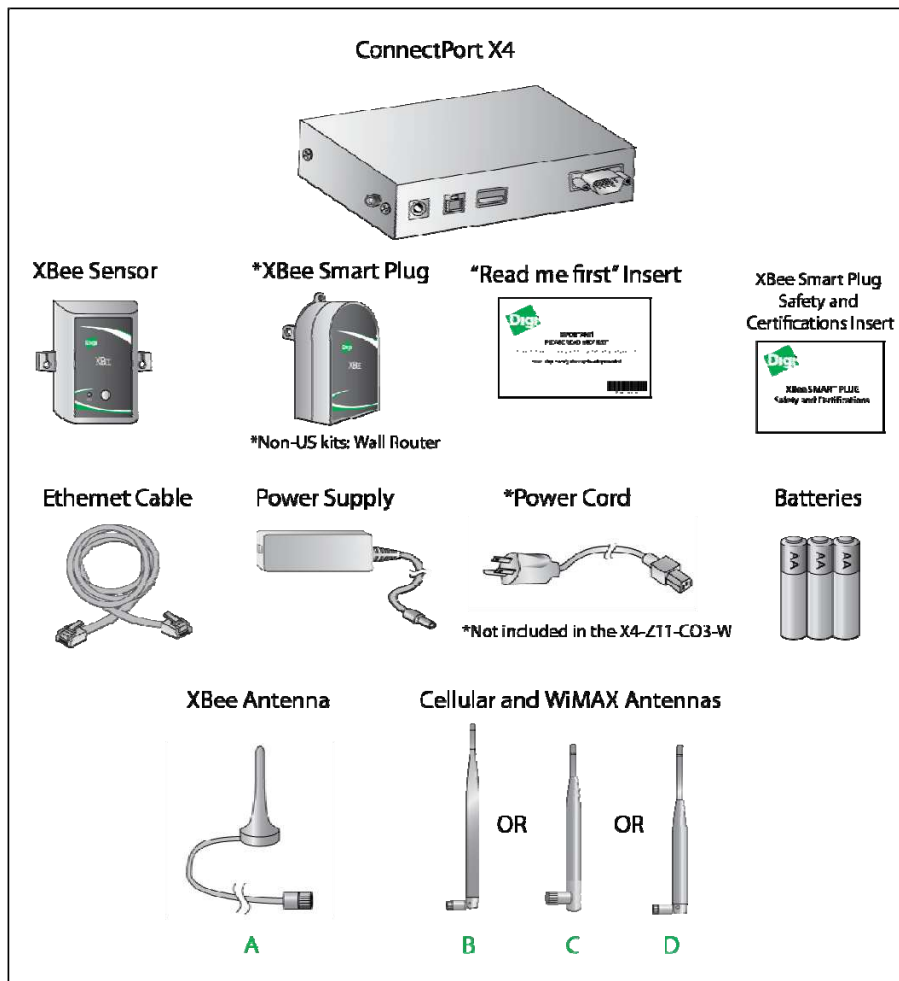


Figure 1: Kit Components

The table below indicates the type and quantity of cellular or WiMAX antennas included in your kit.

Antenna	Sprint X4K-Z1U-C1011-A1	Verizon X4K-Z1U-C2011-A1	AT&T X4K-Z1U-H2011-A1	Generic X4K-Z1U-U7011-A1	WiMAX X4K-Z1U-C6011-A1
A	1	1	1	1	1
B	2	2			
C			2	2	
D					2

Step 2: Unpack and Set up the ConnectPort X4

To begin setting up your iDigi Gateway Development Kit, you will need to connect the antennas to your ConnectPort X4, connect your PC's Ethernet cable to the ConnectPort X4, and then power on the ConnectPort X4, and then form your XBee network.

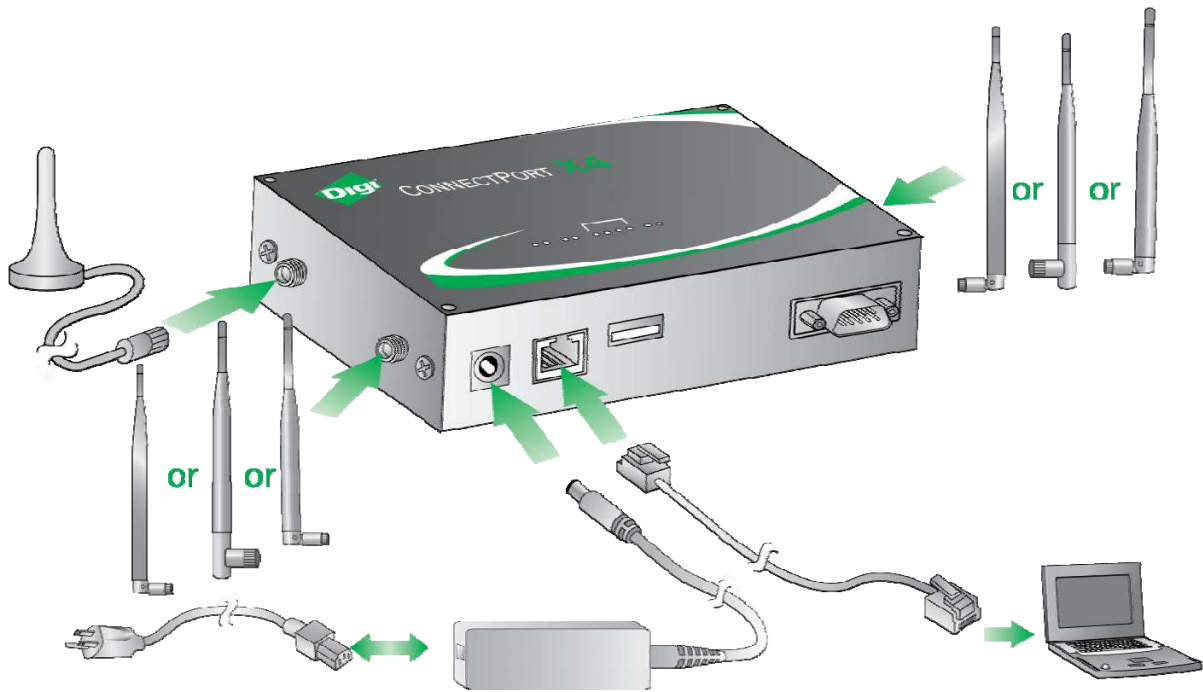


Figure 2: Connecting Hardware

1. Remove the ConnectPort X4 from the box and attach the XBee antenna to the unit.
2. Attach the Cellular or WiMAX antenna(s) to your ConnectPort X4.
3. Connect the power supply to the ConnectPort X4 and then plug the power supply into a wall outlet.

Note: The power supply has a twist-locking connector, ensure that the connector is locked into place.

Step 3: Configure the ConnectPort X4

Note: By default, ConnectPort X4 Wireless WAN models are configured with a static IP Address of 192.168.1.1 for the Ethernet interface, and they are configured to act as a DHCP Server. This configuration simplifies the initial configuration of the unit.

1. Connect one end of the Ethernet cable to your PC, and the other end to the ConnectPort X4 Ethernet port (ensure that your PC is configured to obtain its IP address via DHCP).
2. Open the Web interface of the ConnectPort X4 by navigating to the 192.168.1.1 address in a Web browser on the PC and you will see a screen similar to the following:

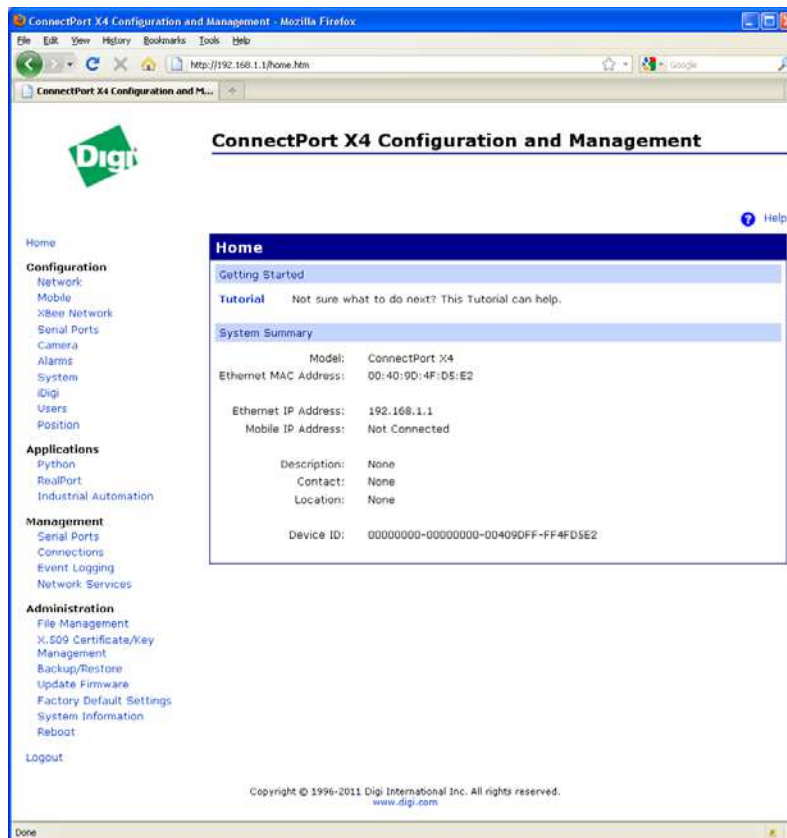


Figure 3: Web Interface

3. Configure the ConnectPort X4 Wireless WAN and Ethernet interface. Select the Appendix below that best matches the Wireless WAN interface of your ConnectPort X4.

Note: For more information on how to properly configure the ConnectPort X4 Wireless WAN interface, refer to the following Appendix:

Appendix A: Configuring for a GSM/Edge cellular network (AT&T)

Appendix B: Configuring for a CDMA cellular network (Verizon)

Appendix C: Configuring for a CDMA cellular network (Sprint)

Appendix D: Configuring for a WiMAX network

Once you have followed the configuration examples for the Wireless WAN interface in the appropriate Appendix, continue with the following sections below:

Configuring the ConnectPort X4 IP Gateway Priority

Once the ConnectPort X4's mobile interface is connected, it could conceivably reach the Internet via either of its network interfaces (Mobile or Ethernet). Configuring the ConnectPort X4 Gateway Priority List determines the priority for each of its network interfaces. By default the ConnectPort X4 gives the Mobile interface the highest priority.

The ConnectPort X4 IP Gateway Priority List and the DNS Priority List are configurable via the Configuration > Network > Advanced Network Settings page, as displayed below: (Gateway Priority will display WiMAX for WiMAX units.)

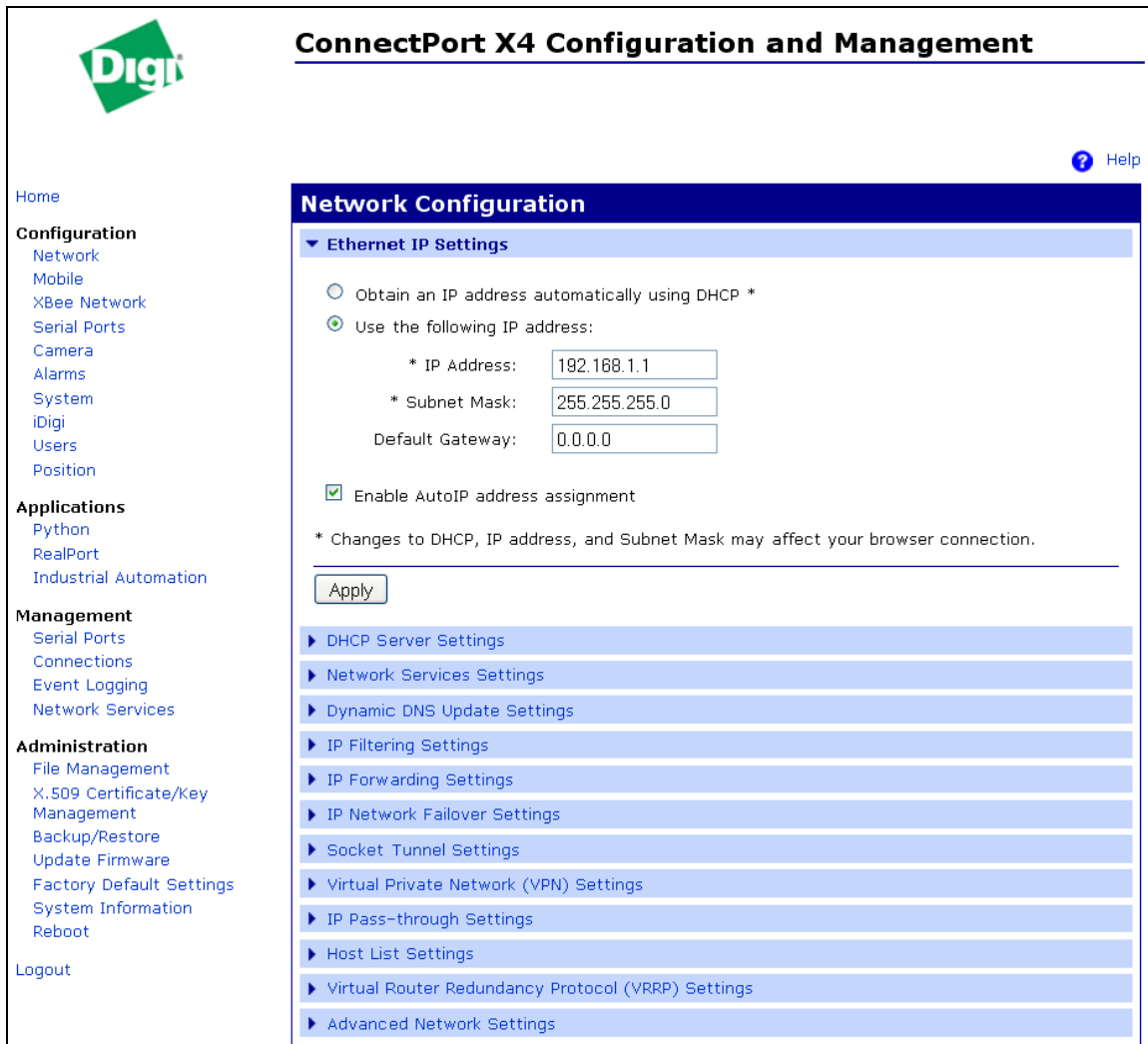
The screenshot displays the 'Advanced Network Settings' configuration page. At the top, there is a blue header with a downward arrow and the text 'Advanced Network Settings'. Below this, a paragraph states: 'The following settings are advanced settings used to fine tune the network connection and network interfaces. The default settings will typically work in most situations.' A blue bar labeled 'IP Settings' contains the following fields: 'Host Name:' with an empty text box; 'Static Primary DNS:' with a text box containing '0.0.0.0'; 'Static Secondary DNS:' with a text box containing '0.0.0.0'; 'DNS Priority:' with a dropdown menu showing 'Static', 'Mobile', and 'Ethernet', and two blue arrows (up and down) to its right; and 'Gateway Priority:' with a dropdown menu showing 'Mobile' and 'Ethernet', and two blue arrows (up and down) to its right. Below these settings, a line of text reads: 'See also [IP Network Failover Settings](#) for default gateway management.' Another blue bar labeled 'DNS Proxy Settings' contains a checked checkbox for 'Enable DNS Proxy Service' and a text box for 'Request Cache Size Maximum:' containing '256' followed by the text 'entries (16-1024)'.

Figure 4: Advanced Network Settings

Configuring the Ethernet Interface

Now that the ConnectPort X4's mobile interface is configured, you will need to configure the Ethernet interface. The Ethernet configuration changes will involve disabling the DHCP Server and determining how the ConnectPort X4 will be given its IP address.

1. Click on Configuration > Network from the left-hand menu. You should see the Network Configuration screen (with the Ethernet IP Settings page displayed by default) as shown:



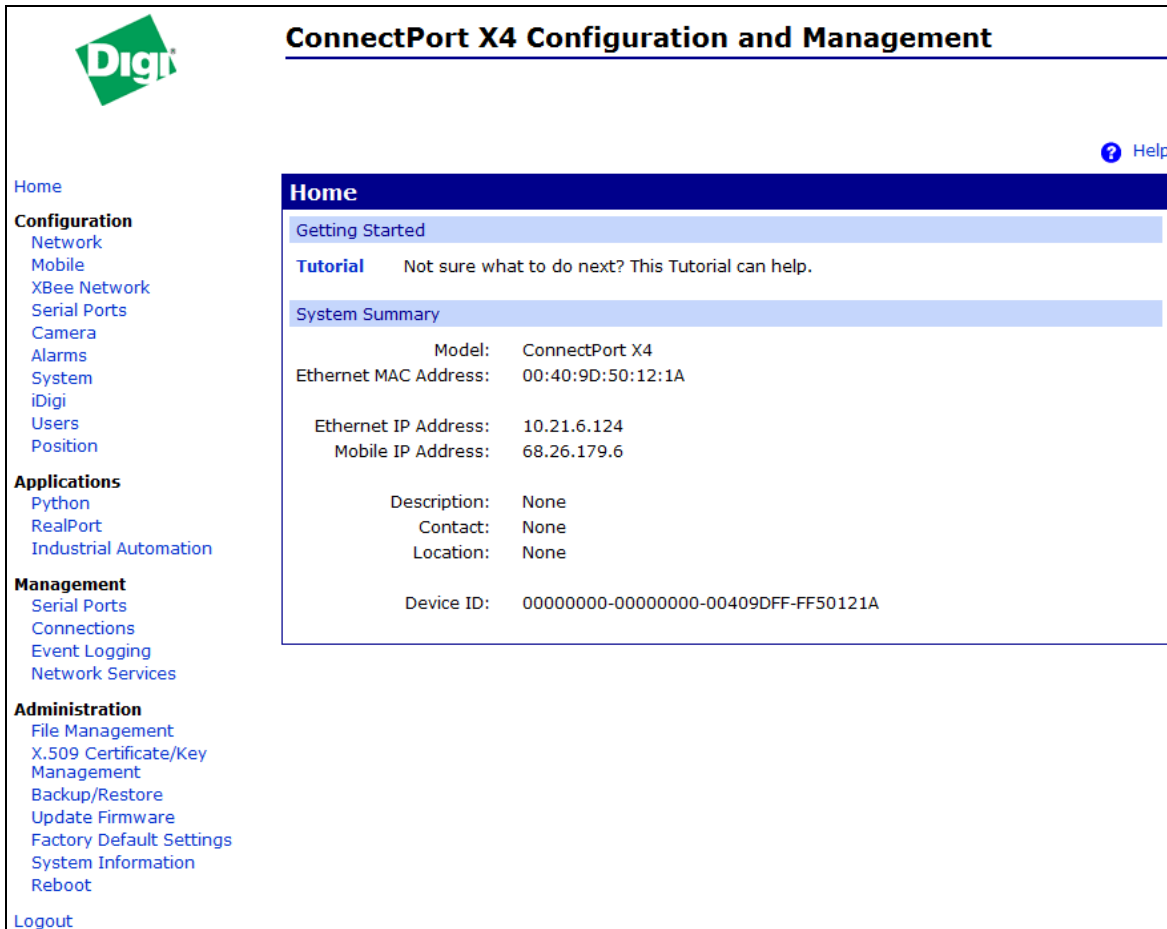
The screenshot displays the 'ConnectPort X4 Configuration and Management' web interface. On the left is a navigation menu with categories: Home, Configuration (Network, Mobile, XBee Network, Serial Ports, Camera, Alarms, System, iDigi, Users, Position), Applications (Python, RealPort, Industrial Automation), Management (Serial Ports, Connections, Event Logging, Network Services), Administration (File Management, X.509 Certificate/Key Management, Backup/Restore, Update Firmware, Factory Default Settings, System Information, Reboot), and Logout. The main content area is titled 'Network Configuration' and features a sub-section 'Ethernet IP Settings'. This section has two radio button options: 'Obtain an IP address automatically using DHCP *' (unselected) and 'Use the following IP address:' (selected). Below these are three input fields: '* IP Address:' with the value '192.168.1.1', '* Subnet Mask:' with '255.255.255.0', and 'Default Gateway:' with '0.0.0.0'. There is a checked checkbox for 'Enable AutoIP address assignment' and a note: '* Changes to DHCP, IP address, and Subnet Mask may affect your browser connection.' An 'Apply' button is located below the note. A list of other network settings is shown at the bottom, each with a right-pointing arrow: DHCP Server Settings, Network Services Settings, Dynamic DNS Update Settings, IP Filtering Settings, IP Forwarding Settings, IP Network Failover Settings, Socket Tunnel Settings, Virtual Private Network (VPN) Settings, IP Pass-through Settings, Host List Settings, Virtual Router Redundancy Protocol (VRRP) Settings, and Advanced Network Settings.

Figure 5: Ethernet IP Settings

2. Click the DHCP Server Settings link and open the DHCP Server Settings page.
3. To disable the DHCP Server, un-check the "Enable Dynamic Host Configuration Protocol (DHCP) Server" entry. Click Apply when finished.
4. Return to the Ethernet IP Settings page by clicking the Ethernet IP Settings link.
5. Configure the ConnectPort X4 with either a static IP address, or have it get its IP address from a DHCP Server, whichever method is appropriate. Click Apply when finished.

Viewing IP Address Information

The ConnectPort X4 Home page will display the IP address for both the Ethernet and Mobile networks.



ConnectPort X4 Configuration and Management

Home

Configuration

- Network
- Mobile
- XBee Network
- Serial Ports
- Camera
- Alarms
- System
- iDigi
- Users
- Position

Applications

- Python
- RealPort
- Industrial Automation

Management

- Serial Ports
- Connections
- Event Logging
- Network Services

Administration

- File Management
- X.509 Certificate/Key Management
- Backup/Restore
- Update Firmware
- Factory Default Settings
- System Information
- Reboot

Logout

Home

Getting Started

Tutorial Not sure what to do next? This Tutorial can help.

System Summary

Model:	ConnectPort X4
Ethernet MAC Address:	00:40:9D:50:12:1A
Ethernet IP Address:	10.21.6.124
Mobile IP Address:	68.26.179.6
Description:	None
Contact:	None
Location:	None
Device ID:	00000000-00000000-00409DFF-FF50121A

Figure 6: ConnectPort X4 Home Page

Viewing Ethernet Statistics

To view information about the Ethernet Link as well as Ethernet and IP statistics, navigate to the Administration > System Information > Network page.

The ConnectPort X4 is now ready to be moved to your Ethernet network, and by default will use its mobile interface as its primary network interface.

Disconnect the ConnectPort X4 from your PC and then connect it to the Ethernet network (if the PC needs to be reconfigured with a static IP address, do this prior to moving the PC to the Ethernet network as well).



**You have just completed Goal #1:
Configure the Wireless WAN interface of the
ConnectPort X4.**

Step 4: Setup the XBee Smart Plug and XBee Sensor



XBee/ZigBee Note: If you have additional XBee/ZigBee devices, for the best kit experience, we recommend powering down or disable joining other XBee/ZigBee PANs in the area before beginning this step. If you are unable to do this other devices might join the kit network and create interference when deploying your iDigi Dia project. You could also encounter issues connecting the XBee Sensor and XBee Smart Plug to the ConnectPort X4 as they are configured to join any available PAN.

1. Remove the XBee Smart Plug from the box and plug it into a wall outlet. The green LED will blink to indicate that the XBee Smart Plug is associated with an XBee network.
2. Remove the XBee Sensor from the box and insert the batteries (3) from the box and install them into the XBee Sensor (unscrew the two screws on the XBee Sensor to install the batteries). The XBee Sensor's ASSC LED will blink when the device is connected to your XBee network.




Note: If either of the XBee devices fails to blink its ASSC LED indicating that it is connected to your XBee network, please refer to the "Is the ASSC LED solid green?" section of Appendix D: Troubleshooting on page 79 for more information.

Step 5: Connect the ConnectPort® X4 to iDigi®

The iDigi Cloud is an on-demand hosted service platform with no infrastructure requirements for the user. The iDigi Cloud provides device management, iDigi client application to iDigi device data interaction (messaging), and data storage for a network comprised of both wired and wireless Digi and third-party Gateways (called iDigi devices). The iDigi Cloud provides easy integration with M2M and mesh network devices.

First, before you can connect your ConnectPort X4 to iDigi, you must create an iDigi developer account.

1. To set up an iDigi developer account:
 - a. Navigate to <http://www.idigi.com>.
 - b. Click the  **iDigi Login** button in the upper right corner of the page.
 - c. Click the **iDigi Developer Cloud** login button.

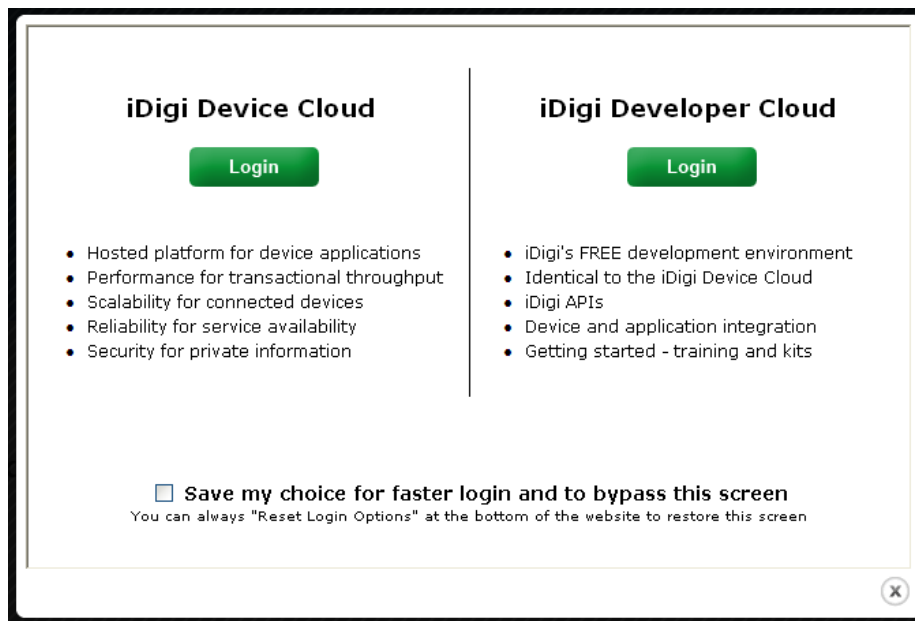


Figure 7: iDigi Cloud Screen

You will be redirected to the iDigi Developer Cloud login page.



Want to learn more about iDigi?

Please refer to the iDigi User's Guide which can be found at

<http://www.digi.com/gatewaydevelopmentkit>

- d. If you do not already have an iDigi developer account, click on the “Are you a new user” link and create your account.
If you already have an account, login and skip ahead to the “Add the ConnectPort X4 to your iDigi inventory” section on the next page.

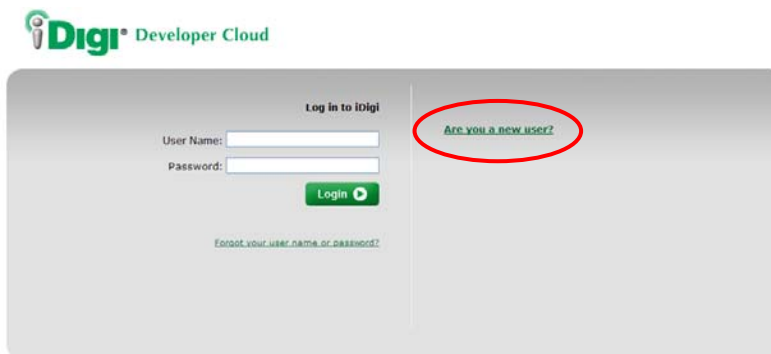


Figure 8: iDigi Login Page

Continue filling in all required fields of the iDigi Registration Form until you complete the iDigi Registration process.

Figure 9: New User Registration Page


- e. After completing the iDigi Registration process, you will be redirected to the iDigi Login page (refer to Figure 5, above). Enter your iDigi user credentials and then click the **Login** button.



**You have just completed Goal #2:
Creating an iDigi developer account on
the iDigi M2M operating platform.**

Add the ConnectPort X4® to your iDigi® Inventory

The iDigi Cloud allows you to securely manage the devices in your device inventory.

1. To add the ConnectPort X4 to your inventory, follow these steps:
 - a. Select the **Devices** link in the Left Navigation Bar.
 - b. Click the  **Add Devices** button in the Tool Bar to open the Add Devices applet. The Add Devices applet will discover the Digi devices on your network.

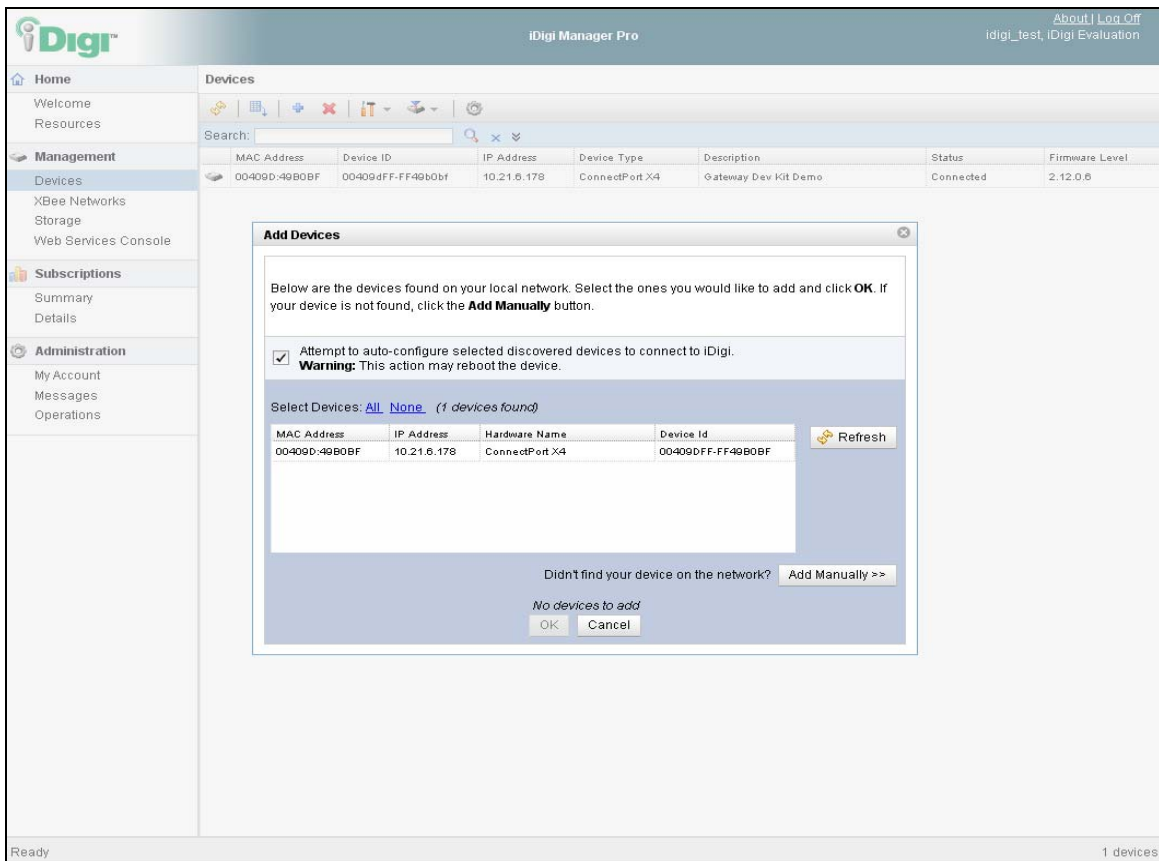


Note: In order to discover devices on your network automatically, the Add Devices applet requires Java Runtime Environment (JRE) 1.6 or newer.



If Java Runtime Environment (JRE) 1.6 is not installed, you must add your device manually; see the “iDigi Manager Pro does not discover your ConnectPort X4” section of Appendix D: Troubleshooting, on page 80 for more information.

- c. Select your ConnectPort X4 from the list. To verify that you are selecting the correct device from the list, match the MAC address listed on your label (found on the bottom of the device) with the MAC address listed within the Add Devices applet. Click the **OK** button.



The screenshot shows the iDigi Manager Pro interface. The main window displays a table of devices with the following data:

MAC Address	Device ID	IP Address	Device Type	Description	Status	Firmware Level
00409D49B0BF	00409DFF49B0BF	10.21.0.178	ConnectPort X4	Gateway Dev Kit Demo	Connected	2.12.0.0

An 'Add Devices' dialog box is open, showing the following text and options:

Below are the devices found on your local network. Select the ones you would like to add and click **OK**. If your device is not found, click the **Add Manually** button.

Attempt to auto-configure selected discovered devices to connect to iDigi.
Warning: This action may reboot the device.

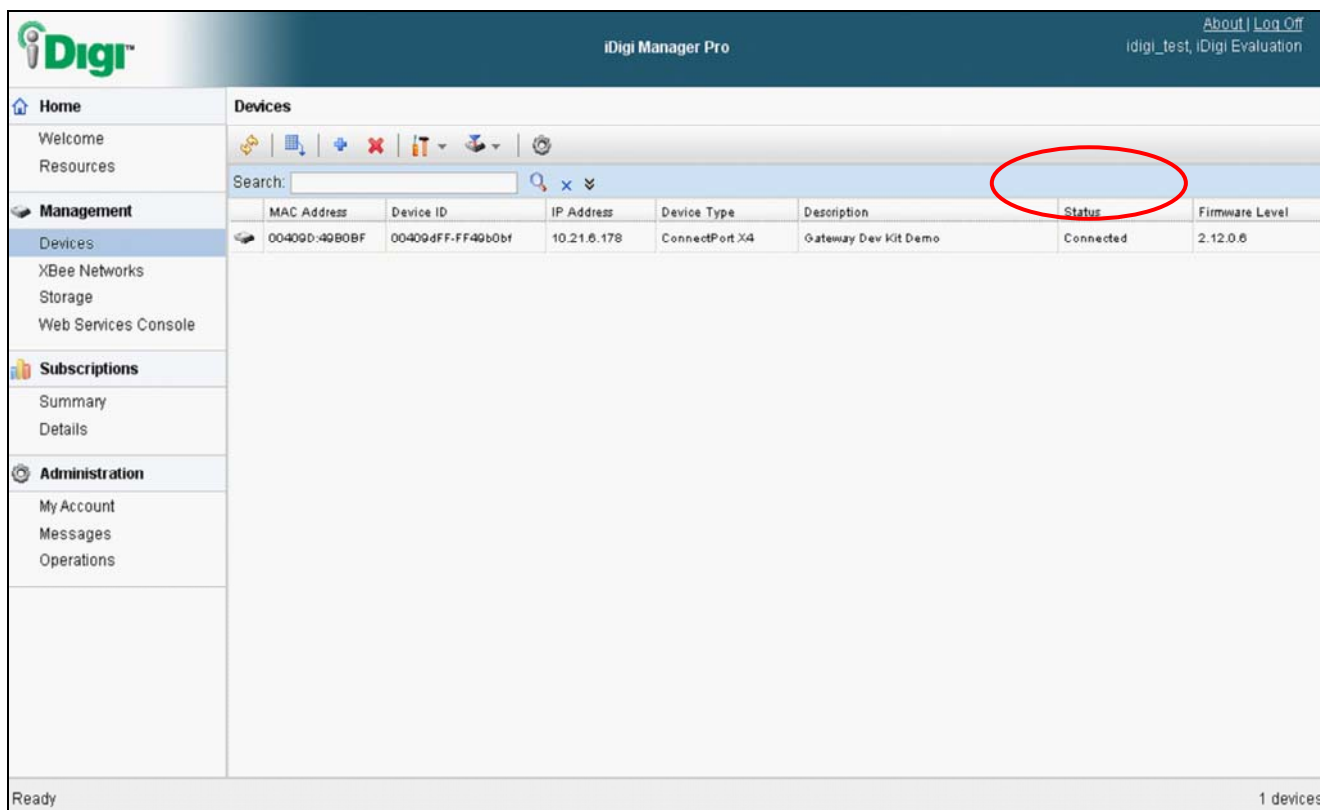
Select Devices: [All](#) [None](#) (1 devices found)

MAC Address	IP Address	Hardware Name	Device Id
00409D49B0BF	10.21.0.178	ConnectPort X4	00409DFF49B0BF

Buttons: Refresh, Add Manually =>, OK, Cancel

Figure 10: Add Devices Applet

- d. Wait about 60 seconds then go back to the Devices list and click the **Refresh** button. The status of your ConnectPort X4 should now appear as “Connected.”



The screenshot shows the iDigi Manager Pro web interface. The top navigation bar includes the iDigi logo, the title "iDigi Manager Pro", and user information "idigi_test, iDigi Evaluation". A left sidebar contains menu items for Home, Management, Subscriptions, and Administration. The main content area is titled "Devices" and features a search bar and a table of device inventory. A red circle highlights the "Refresh" button in the top right of the table area.

	MAC Address	Device ID	IP Address	Device Type	Description	Status	Firmware Level
	00409D-49B0BF	00409dFF-FF49b0bf	10.21.6.178	ConnectPort X4	Gateway Dev Kit Demo	Connected	2.12.0.6

Figure 11: iDigi Device Inventory



Note: If the device still appears as ‘Disconnected’ after clicking the **Refresh** button, please refer to the “iDigi Manager Pro lists the ConnectPort X4 as ‘Disconnected’” section of Appendix D: Troubleshooting, on page 82 for more information.

Step 6: Install the Digi ESP™ for Python Development Environment

The Digi ESP for Python Development Environment is an Eclipse-based Integrated Development Environment (IDE) that simplifies the process of creating Python applications for iDigi devices. It also provides many example projects, one of which we will be using later in this section.

To download and install the Digi ESP for Python Development Environment:

1. Navigate to <http://www.digi.com/gatewaydevelopmentkit> and click on the “Download Digi ESP for Python” link.
2. You will be redirected to the Python Product page. The various download options for the Digi ESP for Python framework will be displayed on this page. Click on the “Digi ESP for Python - Windows XP/Vista/Windows 7 installer ver. 1.2.0.5” link to download the Digi ESP for Python Development Environment.



Note: Mac operating systems are not supported in this Development Kit experience.

The screenshot shows the Digi website's Python product page. The page has a green header with the Digi logo and the tagline "Making Wireless M2M Easy". Below the header is a navigation menu with tabs for Solutions, Services, Products, Learning Center, Support, About us, How to buy, and Government. The main content area is titled "Product: Python" and includes a product status of "Active" and support status of "Web, Email, Phone". There is a "Submit a support ticket" button and contact information for U.S. & Canada (877-912-3444) and Worldwide (+1 952-912-3456). A "Drivers" section is visible at the bottom, listing various download options. The link "Digi ESP for Python - Windows XP/Vista/Windows 7 installer ver. 1.2.0.5" is circled in red.

Figure 12: Select Digi ESP for Python Download Variant

3. Once the Digi ESP for Python framework has been downloaded, run the Digi ESP for Python framework installation wizard. Follow the steps in the wizard to complete the installation process. Click **Finish** at the end of the installation.
Note: A prompt will ask you if you would like to open the Release Notes associated with the Digi ESP for Python framework, deselect this checkbox.
4. The Digi ESP for Python framework will launch automatically and prompt you to select a workspace directory. Use the default workspace directory (or click the **Browse** button and navigate to your desired alternate workspace location), check the “Use this as the default and do not ask again” box, and click **OK**.



Note: The Digi ESP for Python framework 'workspace' is the directory where projects and configurations will be stored. The default location for this directory is a subfolder called **workspace** on the user home directory, for example, **C:/Documents and Settings/[username]/workspace**.

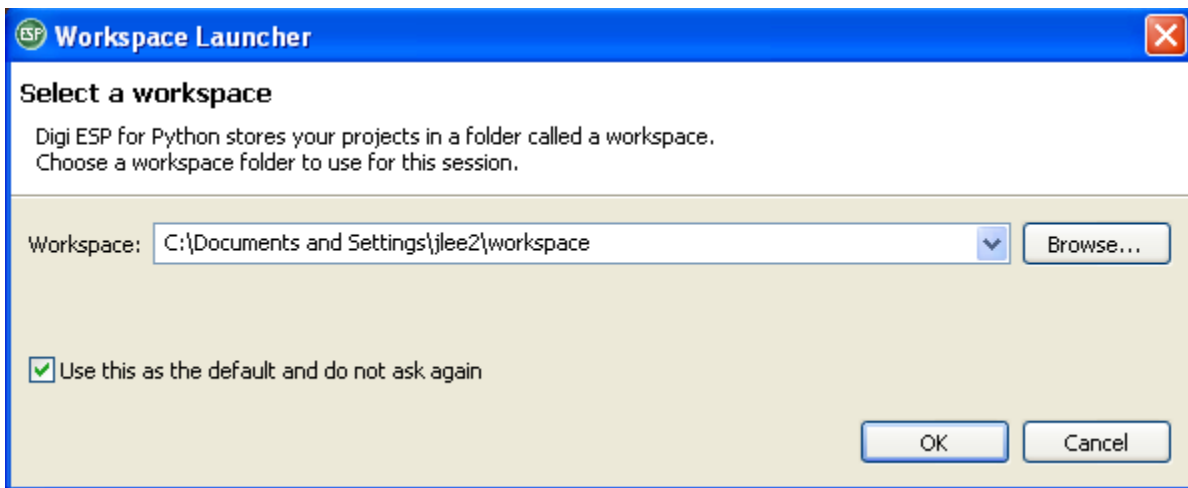


Figure 13: Selecting your Digi ESP for Python Workspace

5. The first time you run Digi ESP for Python the **Welcome** screen is displayed.

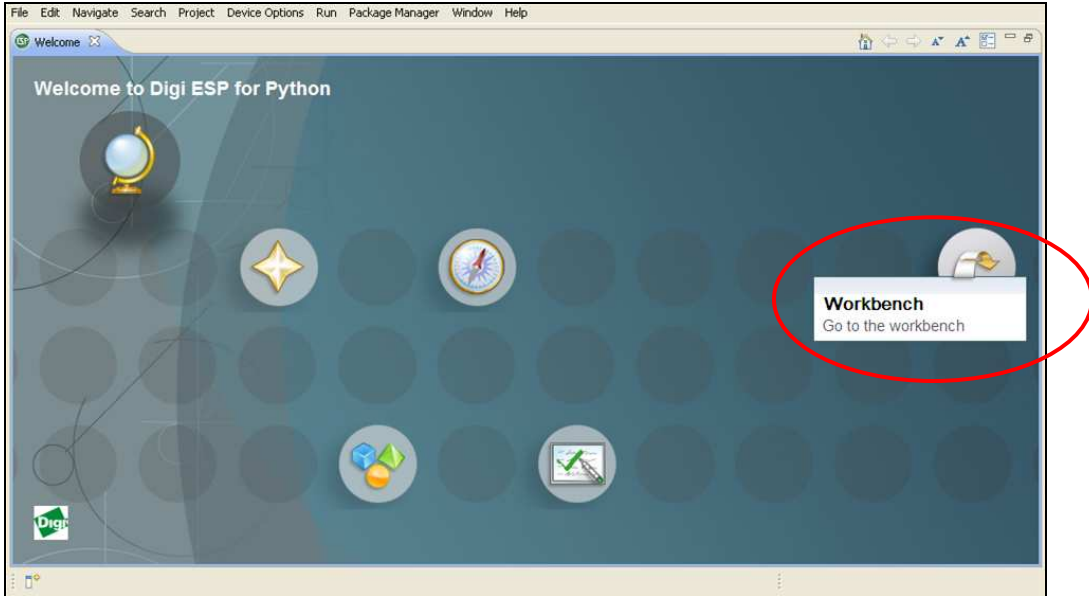


Figure 14: Digi ESP for Python Welcome Screen

6. Open the Digi ESP for Python Workbench by clicking on the Workbench icon (as indicated above).

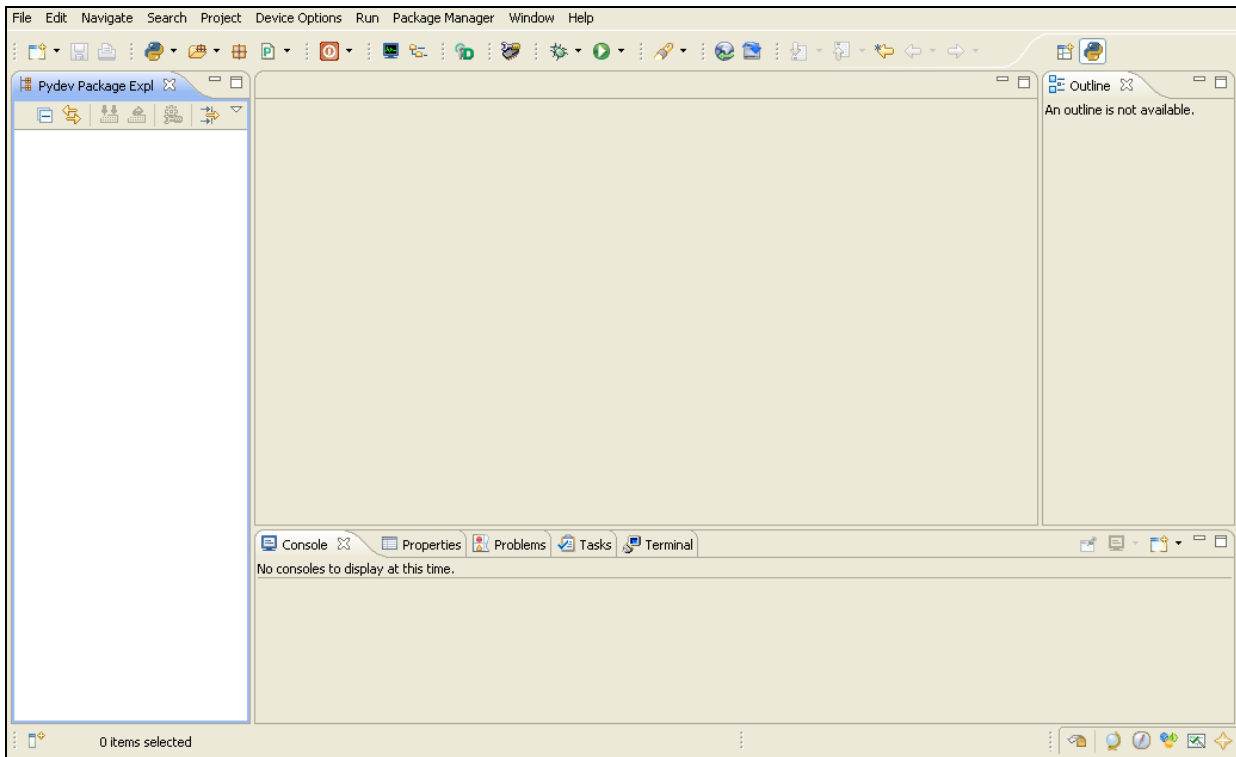


Figure 15: Digi ESP for Python Workbench

Step 7: Create your first iDigi® Dia Project

The iDigi Dia (Device Integration Application) is software written in Python that simplifies the task of gathering data from attached devices (such as XBee Sensors), and sending the gathered data to iDigi, allowing for easy integration with client applications using the iDigi Web Services API to access it.

The steps in this section will help you build, download, and launch your first iDigi Dia application.

The resulting iDigi Dia application will contain drivers for the XBee Sensor and XBee Smart Plug. The application will also be configured to report its data using the RCI presentation for access with iDigi Web Services (which will be demonstrated later in this guide).

To begin creating your first iDigi Dia project:

1. Open the **iDigi Dia Project Wizard** by clicking **File > New > iDigi Dia Project** from the **File** menu.



Figure 16: Selecting an iDigi Dia Sample Project

- The main wizard page contains a text box to insert the name of the project to be created; name your project. This example uses a project name of “Demo_Project1” but you can choose any unique name. Once the project name has been provided, click **Next**.

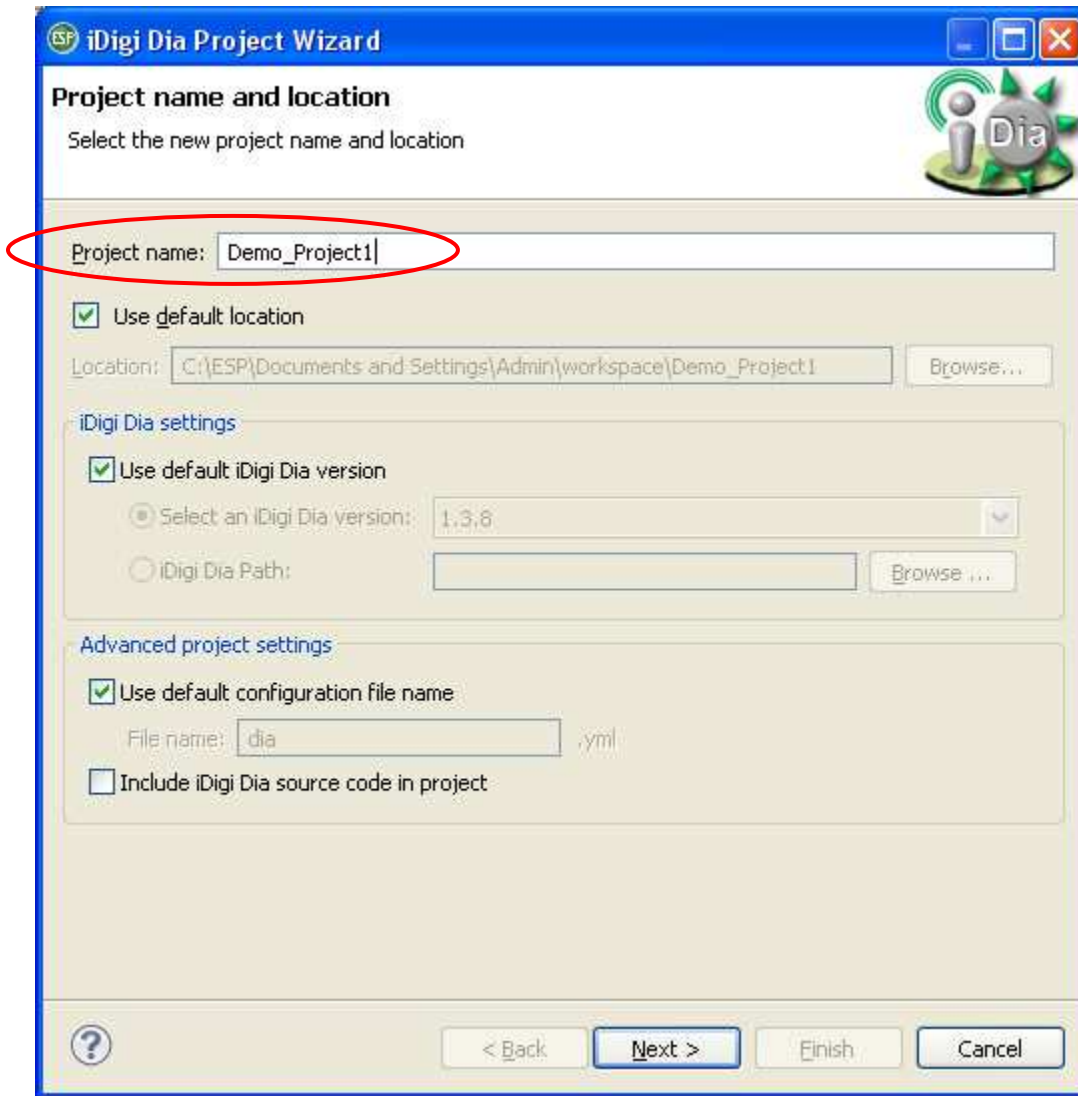


Figure 17: Name your iDigi Dia Project

3. Within the Remote Device selection wizard page ensure that **Use Current Remote Configuration** is selected, and then click the **New...** button to create a new remote configuration.

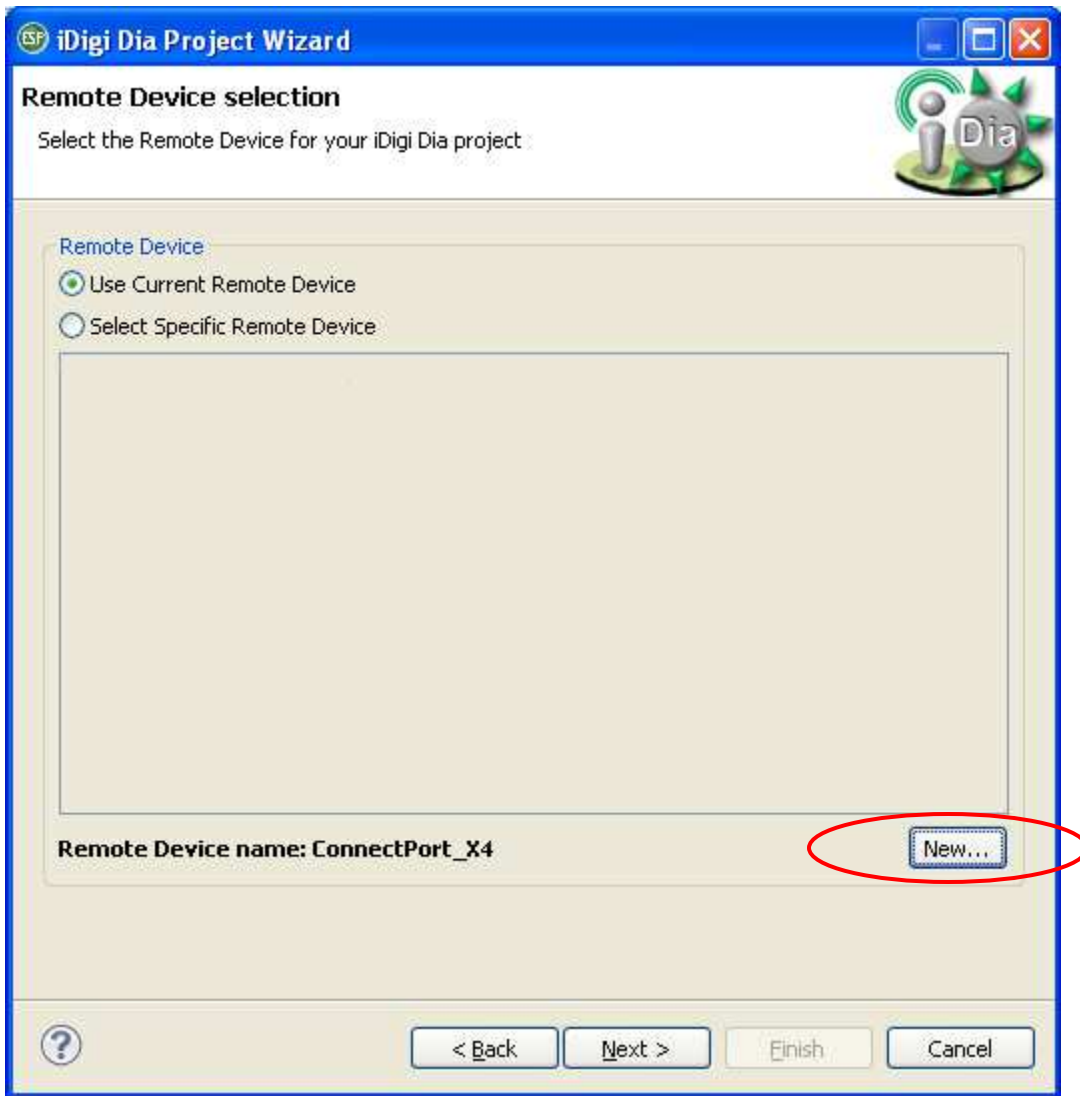


Figure 18: Create New Configuration



A new **Remote Device Configuration** is needed to work with each specific target device (your ConnectPort X4 in this case). Multiple remote configurations can be created for working with different devices.

- a. After clicking the **New...** button, the Device Manager wizard dialog will open.

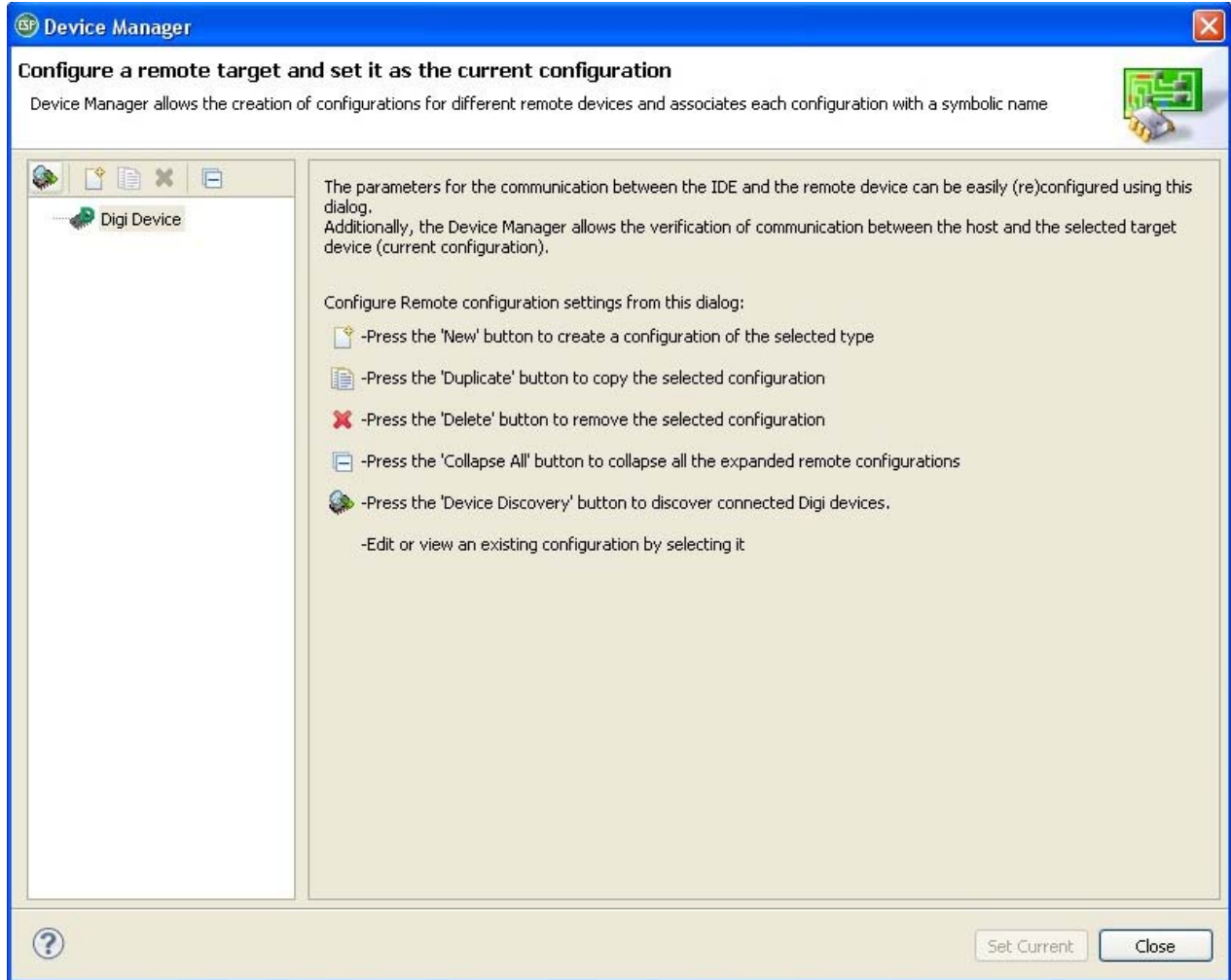



Figure 19: Device Manager Home Page

Note: The left side of the dialog lists the Remote Configurations that exist in the Workbench.

- b. Initially, there are no Remote Configurations listed in the Device Manager. To begin the process of creating your first Remote Configuration, enable the Device Manager to discover the ConnectPort X4 automatically by clicking the **Device Discovery**  button.