Quick Start Instructions

Package Contents
- Power Xpert Gateway Minislot (PXGX) UPS Card
- USB Cable
- Quick Start Instructions
Help Desk Numbers

United States  1-800-356-5737 or 1-800-843-9433
Canada  1-800-461-9166 ext 260
All Other Countries  Call your local service representative
Web Site  www.eaton.com/pxgx

NOTE  On the Web site opening page, click Support and select the Customer Service link for more information.
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Chapter 1 Installation Checklist

1. Verify that the following items are available:
   - Power Xpert Gateway Minislot (PXGS) UPS Card package contents (card, cable, Quick Start Instructions)
   - Phillips® screwdriver
   - Available USB port on a computer running Microsoft® Windows®
   - Web browser (Microsoft Internet Explorer® version 8.0 and higher, Mozilla® Firefox®, or Google Chrome™ are recommended)

2. If you are going to use Dynamic Host Configuration Protocol (DHCP), provide your local network administrator with the card’s MAC address. The MAC address is located on either the shipping box label or the label on this card.
   - MAC Address _______________________________________________

3. If you are not going to use DHCP to provide any of the settings listed below, contact your local network administrator for the settings.
   In the table below, check the DHCP check box or enter the values for manual configuration. This data is referenced later in the procedure.

<table>
<thead>
<tr>
<th>Item</th>
<th>DHCP*</th>
<th>Manual Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPv4</td>
<td></td>
<td>Card IP Address: ________________</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Netmask: ________________</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gateway: ________________</td>
</tr>
<tr>
<td>DNS – Name Servers</td>
<td></td>
<td>Name Server #1: ________________</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name Server #2: ________________</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name Server #3: ________________</td>
</tr>
<tr>
<td>DNS – Domain</td>
<td></td>
<td>Domain: ________________</td>
</tr>
</tbody>
</table>

* The network administrator normally sets up the DHCP server to provide a static IP address each time the card makes a DHCP request.

4. If you need e-mail functionality, obtain the SMTP mail server’s IP address or host name. If using the SMTP host name, verify that you also have the Name Server IP address (see Step 3).
   - SMTP (mail server) IP Address
     or Host Name ________________
Installation Checklist
Chapter 2  Install the Card

NOTE The hot-swappable PXGX UPS card can be installed without turning off the UPS or disconnecting the load.

To install the PXGX UPS card:

1. Verify that all six DIP switches on the card are in the OFF position (see Figure 1).

Figure 1. Verify DIP Switches are OFF

2. If not already done, record the MAC address for future reference (see the Chapter 1 Installation Checklist).

3. Remove the X-slot® cover from the UPS. Retain the screws.

NOTE If another card is already installed with an attached communication cable, disconnect the cable and then remove the card.

4. To prevent electrostatic discharge (ESD), place one hand on a metal surface, such as the UPS panel.

5. Slide the card into the open slot and secure with the screws removed in Step 2 (see Figure 2).
6. From your laptop, go to www.eaton.com/pxgx.

7. On the Features tab, click the **Download Configuration File** link to download the configuration file.

8. Save the driver configuration file (powerxpert.inf) to the C: drive using the default location or a folder you select. Note the path of the downloaded file on your computer. (Never download the file to your desktop).
Chapter 3  Connect the Card to the Computer

To connect the card to the computer:

1. Plug the small connector at the end of the supplied USB configuration cable into the setup port on the card (see Figure 3).

Figure 3. Install the USB Cable

2. Plug the other end of the USB cable into the USB port on the computer. The Windows operating system detects new hardware.

   **NOTE** If a message indicates that the device driver software was not successfully installed, click Ignore.

   **NOTE** You may see a pop-up message window that shows “Found new hardware.” This indicates that the hardware installed successfully.

3. Connect an active Ethernet cable (not supplied) to the Upstream Ethernet connector on the PXGX UPS card (see Figure 4).

4. If you are connecting to another PXGX UPS card or other Ethernet device, connect an Ethernet cable (not supplied) to the Downstream Ethernet connector on the PXGX UPS card.
5. Wait for the power light and status light on the installed card to illuminate. This takes about two minutes.


7. Did the Power Xpert Gateway software open to the PXGX UPS card page?
   - If yes, the driver has already been installed automatically. Either verify the IP address assigned through DHCP or manually enter a static (fixed) IP address for the card’s network connection:
     a. To verify the DHCP-assigned IP address, go to Chapter 5 Obtain a DHCP-Assigned IP Address.
     b. To manually enter a fixed IP address, go to Chapter 6 Assign an IP Address Manually.
   - If no, the driver has not been installed. Go to the next section, Chapter 4 Install the Driver Software in order to confirm that you have the most current USB Driver software. If not, you will need to install or update the USB Driver software.
Chapter 4  Install the Driver Software

The steps you use to install the driver software depend on your operating system (OS). This procedure provides instructions for installing driver software on a Windows 7 OS.

NOTE  Windows 8 steps are basically the same as Windows 7, although the dialog displays may differ somewhat.

NOTE  The PXGX UPS and PXGMS cards use the same driver.

NOTE  You can use either the Device Manager path or the Devices and Printers path to browse for the driver software and install it. This procedure uses the Device Manager.

To install the driver from the **Device Manager**:

1. Click **Start** in the Start bar. Type Device in the search box.
2. Select **Device Manager** from the list above the search box. The Device Manager opens.
3. Locate **RNDIS/Ethernet Gadget** under either **Other Devices** or **Network Adapters** (see Figure 5).
   - If you do not see RNDIS/Ethernet Gadget in either list, you do not have a cable connected to the card. Connect the computer to the card. Go back to **Step 1**.
   - If RNDIS/Ethernet Gadget is listed under Other Devices, the driver is not installed. Go to **Step 4**.
   - If RNDIS/Ethernet Gadget is listed under Network Adapters, a driver is installed already, but it may not be the most up-to-date driver. Go to **Step 4**, and continue this procedure to ensure the most current driver is installed.

**Figure 5. Update RNDIS/Ethernet Gadget Driver from Other Devices**

![Device Manager screenshot](image)
Install the Driver Software

4. Right-click **RNDIS/Ethernet Gadget** to display the menu and select **Update Driver Software**.
   - If a pop-up message displays, “The best driver is already installed,” click **Close** and go to **Step 10**.
   - Otherwise, go to **Step 5**.

5. Select **Browse my computer for driver software** (see **Figure 6**). Click **Next**. The next page displays.

   **Figure 6. Update Driver Software Window – Search Method**

6. Click **Browse**. The “Browse for Folder” dialog displays. Select the folder that contains drivers for your hardware. Click **OK**. The “Browse for driver software on your computer” page displays.

7. The path to the powerxpert.inf file displays in the **Search for driver software in this location** box. Click **Browse** and navigate to the powerxpert.inf file you already downloaded. Select the file and click **Next** (see **Figure 7**).
   - If a pop-up message displays, “The best driver is already installed,” click **Close** and go to **Step 10**.
   - Otherwise, the software begins to install.
NOTE If the message “Windows can’t verify the publisher of this driver software” displays, select **Install this driver software anyway** (see Figure 8).

8. When the driver software is updated successfully, the message “Windows has successfully updated your driver software” displays (see Figure 9).
9. Click **Close**.

10. Either obtain the DHCP-assigned IP address or manually enter a fixed IP address:
   - To obtain the IP address assigned through DHCP, continue to **Chapter 5 Obtain a DHCP-Assigned IP Address**.
   - To manually enter a static (fixed) IP address for the card’s network connection, continue to **Chapter 6 Assign an IP Address Manually**.

| NOTE | By default, the PXGX UPS card requests an IP address through DHCP when connected to a network. |
Chapter 5 Obtain a DHCP-Assigned IP Address

To obtain the IP address through DHCP:

1. Ensure the PXGX UPS card is still connected to the computer over the USB cable. Also ensure that the network cable is connected from the PXGX UPS card Ethernet port to the network connection.

2. If your Web browser already open to the default IP address, go to Step 3. Otherwise, perform the following:
   a. Open your Web browser.
   c. Log on as administrator.
      • For firmware 2.6.0.5 and higher the username is “admin” and the default password is the card’s MAC address (case sensitive with no colons).
         For example: Card’s MAC address: 00:E0:D8:FF:C0:C4
                   – Administrator name: admin
                   – Password: 00E0D8FFC0C4
      • For firmware versions older than 2.6.0.5 the default username and password is “admin”.

The PXGS card Web page displays.

NOTE
If the system is unresponsive and you cannot make any selections, the browser may be running in compatibility mode. To disable compatibility mode, go to "Disable Browser Compatibility Mode".

3. Select Network from the Configuration menu. The Network page displays (see Figure 10).

4. Under IPv4, the Automatic Configuration: DHCP Enabled setting checkbox should be enabled by default. Make sure the checkbox is checked (enabled) before continuing.

5. Scroll down to Name Service and expand the selection to update the next two DHCP settings (see Figure 10):
   • Check the checkbox (enable) for Use DHCP (when enabled) to get name services.
   • Check the checkbox (enable) for Use DHCP (when enabled) to get domain name.

6. Click Apply.

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7. Select **Yes** for the message, “Do you want to save the Network Configuration?”

8. Wait for approximately two minutes for the card to reboot. Initially, all lights will be lit. You will know the card has finished rebooting when only the top light (Status) and the bottom light (Power) remain lit.


10. When prompted, log on as administrator.

   - For firmware 2.6.0.5 and higher the username is “admin” and the default password is the card’s MAC address (case sensitive with no colons).
     
     For example: Card’s MAC address: 00:E0:D8:FF:C0:C4
     
     - Administrator name: admin
     
     - Password: 00E0D8FFC0C4

   - For firmware versions older than 2.6.0.5 the default username and password is “admin”.

---

*Figure 10. DHCP Enabled and Name Service Settings*
The PXGX UPS card Web page displays.

11. Click **Network** in the menu list.

12. Does the IP address display?
   - If yes, uncheck (disable) the DHCP Enabled box and select **Apply**.

<table>
<thead>
<tr>
<th>NOTE</th>
<th>At this point, the DHCP address is saved as a static IP address.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If no, go to <a href="#">Chapter 6 Assign an IP Address Manually</a> to manually obtain a static IP address for the PXGX UPS card.</td>
</tr>
</tbody>
</table>

| NOTE | For detailed information, refer to the Eaton Power Xpert Gateway (PXGX) UPS User’s Guide, which is available through a link on the Documentation tab on the PXGX UPS product Web page. |
Obtain a DHCP-Assigned IP Address
Chapter 6  Assign an IP Address Manually

To manually assign a static (fixed) IP address for the card:

1. Ensure the PXGX UPS card is still connected over the USB cable and the network cable is connected from the PXGX UPS card Ethernet port to the network connection.

2. If your Web browser already open, go to Step 3. Otherwise, perform the following:
   a. Open your Web browser.
   c. Log on as administrator.
      • For firmware 2.6.0.5 and higher the username is “admin” and the default password is the card’s MAC address (case sensitive with no colons).
      • For firmware versions older than 2.6.0.5 the default username and password is “admin”.
      • The PXGX UPS card Web page displays.
      • Go to Step 3.

   NOTE
   If the system is unresponsive and you cannot make any selections, the browser may be running in compatibility mode. To disable compatibility mode, go to “Disable Browser Compatibility Mode”.

3. Select Network from the Configuration menu. The Network page displays.
4. Uncheck the DHCP Enabled checkbox to disable DHCP and allow you to manually configure the IP address (see Figure 11).

5. Refer to the Chapter 1 Installation Checklist in this book. Enter the IP address, Netmask, and Gateway addresses in the IPv4 > Manual Configuration section.

6. Click Apply, then click OK to confirm.

7. **Optional.** If you are using a host name, or host names, for controlling access to the card:
   - Type the server IP address in the Name Server box. (Up to three IP addresses can be entered.)
   - Click Apply. Click OK to confirm.

8. Open a browser and enter the fixed (static) IP address.

9. Log on as administrator
• For firmware 2.6.0.5 and higher the username is “admin” and the default password is the card's MAC address (case sensitive with no colons).
  
  For example: Card’s MAC address: 00:E0:D8:FF:C0:C4
  
  – Administrator name: admin
  
  – Password: 00E0D8FFC0C4

• For firmware versions older than 2.6.0.5 the default username and password is “admin”.

NOTE

For detailed information, refer to the Eaton Power Xpert Gateway (PXGX) UPS User’s Guide, which is available through a link on the Documentation tab on the PXGX UPS product Web page.
Assign an IP Address Manually
Chapter 7  Disable Browser Compatibility Mode

Browser compatibility allows Web pages designed for older versions to display properly. If data does not display properly on your PXGX UPS card Web page, the browser compatibility mode should be disabled.

To disable the compatibility mode:

1. Open your Web browser.
2. In the Menu bar select **Tools > Compatibility View Settings**. The Compatibility View Settings window opens (see **Figure 12**).

![Compatibility View Settings Window](image)

3. Uncheck (disable) the **Display all websites in Compatibility View** checkbox to disable compatibility mode and click **Close**.
4. Close and re-open your browser so that the changes take effect.

**Figure 12. Compatibility View Settings Window**
Chapter 8  Register a PredictPulse Subscription

PredictPulse is a remote monitoring and management subscription service that collects and analyzes data from connected power infrastructure devices, providing Eaton with the insight needed to make recommendations and take action on your behalf. This service has limited availability outside of the United States. For more information go to www.eaton.com/predictpulse.

NOTE Contact your Eaton service representative for availability of PredictPulse in your region.

Use either the universal PredictPulse Subscription Wizard or the PXGX UPS PredictPulse setup feature to configure your profile and register the Eaton UPS devices monitored by PredictPulse.

The universal PredictPulse Wizard can be downloaded from the PredictPulse web site to begin your subscription registration. Using this method, you can register devices individually or as a group.

However, the latest firmware for the PXGX UPS and PXGMS cards contain a PredictPulse activation set-up feature. As long as these cards are on your network, you can quickly activate subscriptions without the wizard and save time.

To begin registering with the set-up feature, follow this procedure. An e-mail with additional instructions to finish registering and configuring your card is automatically sent to the provided e-mail address.

To register an installed PXGX UPS card for PredictPulse:

1. Locate the PredictPulse selection under the Configuration menu on the Power Xpert Gateway window.

   NOTE If there isn’t a PredictPulse selection, either update your firmware or download the universal PredictPulse Wizard from www.eaton.com/predictpulse and follow the instructions in the Wizard and subsequent e-mail messages.

   NOTE Refer to the Eaton Power Xpert Gateway (PXGX) UPS User’s Guide for more information.

2. On the Power Xpert Gateway window, select Configuration > PredictPulse (see Figure 13).
Register a PredictPulse Subscription

3. Confirm that the checkbox for “Enable PredictPulse” is checked (enabled).

4. Complete the following fields:
   - **Contact Name**: First and last name of the contact person.
   - **Contact Email**: E-mail address of the contact person for event data.
   - **Confirm Email**: E-mail address again for confirmation.
   - **Country**: Country where the main contact resides.

5. Click **Apply** to save.

6. Click **OK** in response to the message, “Are you sure you want to apply settings and send registration email?”

7. A progress message box informs you that registration is in progress. When the first step in registration completes successfully, the contact person identified on the PredictPulse settings page will receive an e-mail with additional instructions (see Figure 14). Registration should be completed on the Eaton portal by this contact person.
Figure 14. Confirmation Message

Information

Congratulations on completing the first step in registering for PredictPulse. You should receive an email from Eaton within the next 15 minutes with a link to the Eaton portal to complete the registration process. For any issues please call 800-843-9433.