Dominion PX

Quick Setup Guide

Thank you for purchasing the Dominion PX intelligent power distribution unit (PDU). This Quick Setup Guide explains how to install and configure the Dominion PX.

For additional information on any aspect of the Dominion PX, see the accompanying Dominion PX User Guide, which can be downloaded from the Firmware and Documentation section (http://www.raritan.com/support/firmware-and-documentation/) of Raritan's website.

For more detailed information on this release, see the latest release notes, also available from the Firmware & Documentation page.

Unpack the Dominion PX

The Dominion PX comes in Zero U, 1U and 2U sizes. The table below describes the equipment shipped with each size. Unpack the components. If any pieces are missing or damaged report this to Raritan Technical Support at tech@raritan.com.

Zero U Size
DPX unit including power cord.
Tool-less mounting bracket and bracket with screws.
Null modem cable with RJ-45 and DB9F connectors.

1U and 2U Size
DPX unit including power cord.
1U or 2U bracket pack and screws.
Null modem cable with RJ-45 and DB9F connectors.

Before You Begin

1. Prepare the installation site. Make sure the installation area is clean and not exposed to extreme temperatures or humidity. Allow sufficient space around the Dominion PX for cabling and outlet connections. Safety instructions are provided in the **Dominion PX User Guide**.
2. Fill out the Equipment Setup Worksheet found in the **Dominion PX User Guide**. Record the model, serial number, and use of each device connected to the Dominion PX's power outlets.

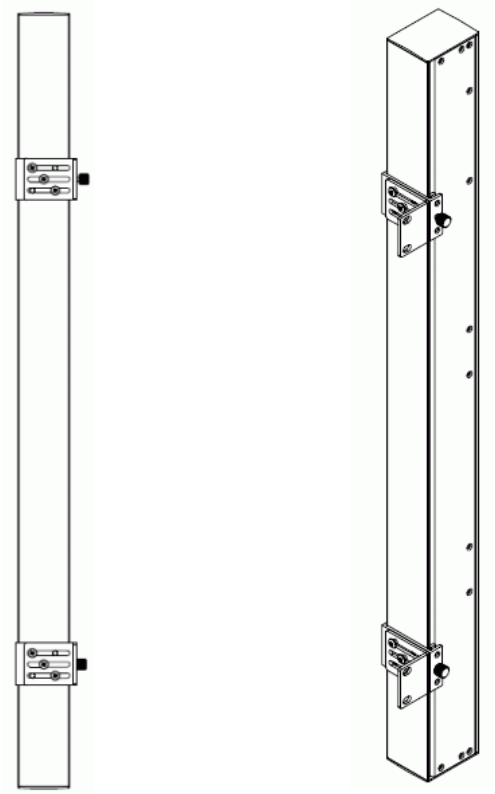
Mount the Dominion PX

Depending on the model, your Dominion PX will require one of the following mounting options:

Mounting 1U and 2U Models

Using the appropriate brackets and tools, fasten the Dominion PX to the rack or cabinet.

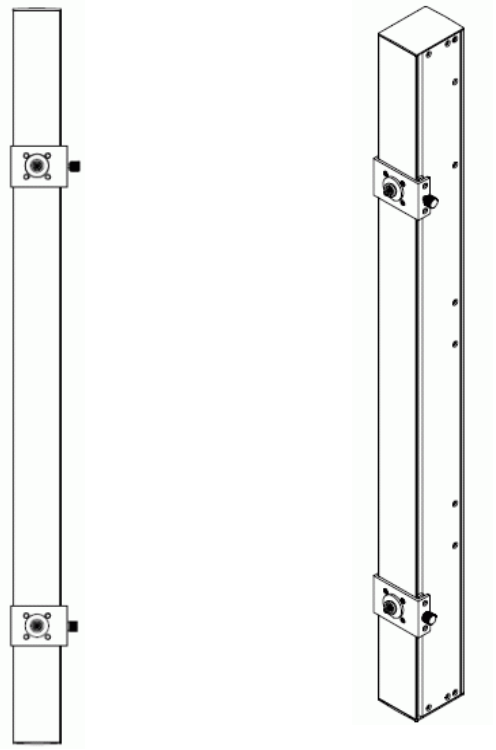
Mounting Zero U Models Using L-Bracket



To mount Zero U models using L-Bracket

1. Align the base-plates on the back of the Dominion PX device and tighten the thumb screws to secure them in place.
2. Unscrew the large buttons in the center of the base plates.
3. Align the L-Brackets with the base plates so that the five screw-holes line up through the L-Bracket's slots. The rack-mount side of the plates should face either the left or right side of the Dominion PX.
4. Fasten the L-brackets in place with at least three screws (one through each slot). Use additional screws as desired.
5. Using rack screws, fasten the Dominion PX to the rack through the L-Brackets.

Mounting Zero-U Models Using Button Mount



To mount Zero-U models using button mount

1. Slide the baseplates onto the rear of the Dominion PX. Leave at least 24 inches between the buttons for stability. Turn the thumbscrews until the plate grasps the Dominion PX lightly.
2. Align the large mounting buttons the mounting holes in the cabinet, fixing one in place and adjusting the other.
3. Tighten the thumbscrews on both baseplates to secure the mounting buttons in their position.
4. Ensure that both buttons can engage their mounting holes simultaneously.
5. Press the Dominion PX forward, pushing the mounting buttons through the mounting holes, then letting the Dominion PX drop about 5/8". This secures the Dominion PX in place and completes the installation.

Tool-less mounting buttons attach to the rear of the Dominion PX Zero-U device. Fix the bottom button in place then adjust the other to align with the mounting holes.

Mounting Zero U Models Using Claw-Foot Mounts

To mount Zero U models using claw-foot mounts

1. Attach two claw feet brackets to the rear of the Dominion PX.
2. Fasten the Dominion PX to the rack or cabinet by using rack screws to secure the unit through the claw-foot bracket.

Connecting the Dominion PX to a Power Source

To connect the Dominion PX to a power source

1. Each Dominion PX model should be plugged into an appropriately rated outlet for its type.
2. The Zero U models do not have front panel indicator lights since they will be mounted in the back of an equipment rack. When a Dominion PX is powered on, the outlet LEDs cycle through various colors. Once the internal software has finished loading, the outlet LEDs display a solid color and the meter illuminates.

Connecting the Dominion PX to a Computer

To connect the Dominion PX to a computer

1. Connect the RJ-45 end of the null modem cable to the port labeled Serial on the front of the Dominion PX.
2. Connect the DB9 end of the null modem cable to the serial port (COM) of the computer.

Connecting the Dominion PX to Your Network

To connect the Dominion PX to your network

1. Connect a standard Cat 5e UTP cable to the LAN port on the front of the Dominion PX.
2. Connect the other end of the cable to your LAN.

Configuring the Dominion PX

To configure the Dominion PX

1. Go to the computer that you connected to the Dominion PX and open a communications program such as HyperTerminal or PuTTY. Make sure the port settings are configured as follows:
   - Bits per second = 9600
   - Data bits = 8
   - Stop bits = 1
   - Parity = None
   - Flow control = None
2. Point the communications program at the serial port connecting the unit and open a window.
3. Press Enter. The opening configuration prompt appears.
4. Type *config* and press Enter. You are now prompted to enter several networking parameters.

IP address	The default IP address is: 192.168.0.192. To assign the Dominion PX an IP address, Choose either: Auto configuration: Type *dhcp* or *bootp* and let the DHCP or BOOTP server provide the IP address. Static IP address: Type *None* and when prompted, enter a an IP address, network mask and gateway.
IP access control	Leave this disabled for now. This disables the Dominion PX's firewall. You can enable the firewall and create access control rules after the initial installation and configuration.
LAN interface speed	Leave the default *auto*, or type *10* or *100* for 10 or 100 Mbps.
LAN interface duplex mode	Leave the default *auto,* or type *half* or *full* for half or full duplex.

1. Once you have entered the network parameters, you are asked to confirm the values you entered. If any are incorrect, type *n*, press Enter, then go back to change them. When they are correct, type *y* and press Enter.

Note: The default IP address is 192.168.0.192. The default IP configuration method is DHCP, and the default IP address will be replaced by the address assigned by DHCP or BOOTP, or the static IP address you selected, when the configuration process is complete. To use the factory default IP address, type in *none* as the IP autoconfiguration command.

Installation and configuration are complete.

What To Do Next

1. Connect devices to the outlets on the Dominion PX.
2. From a computer connected to your LAN, open a browser and point it at the IP address of the Dominion PX.
3. Enter *admin* and *raritan* when prompted for a username and password.
4. You will be prompted to change the admin password. Once this is done, the Dominion PX Home page opens.
5. Under Device Settings, configure PX with the proper date and time or synchronize it with an NTP server. Dominion PX's time must be in sync with the LDAP server to use LDAP authentication.
6. Dominion PX is sent from the factory with all the outlets ON. Turn OFF the outlets without devices connected from the Home Page.
7. Use the menu at the top of the page to create user profiles and groups, set up security, and configure outlet thresholds.

Note: Detailed instructions are available in the **Dominion PX User Guide**.

Safety and Installation Information

Notice

This instruction should be used in conjunction with the **Dominion PX User Guide**.

This product must be installed by suitably qualified personnel in accordance with the requirements of relevant legislation and regulations for the region (e.g. the National Electric Code in the USA, the Canadian Electric Code in Canada, the IEE wiring regulations in UK, etc.) as well as accepted practices in industry. Any information about the uses for which these products were designed and tested is available on request. Installation should be in accordance with any appropriate Health & Safety regulations.

Testing

All PDU's are fully tested and verified to conform to the required standards. Where further system wiring is carried out, or where the modules are integrated into larger systems, the entire installation must be tested prior to use as prescribed by national wiring regulations.

For compliance with certain standards, the installer must test the complete electrical installation prior to use, and, in general use, the products should be subject to regular checking. The frequency of the electrical and visual checks will depend on the nature of the use to which the PDU is put and as such the test frequency must be determined by the installer. Guidelines for normal tests are given below.

Earth Continuity

A current of 25 amps should be passed from an alternating current (AC) source with a no-load voltage not exceeding 12V, between the earth conductor of the power supply cord and the earth connection of the outlet sockets. This test should be repeated for metal parts surrounding the installation, which should be earthed.

Where the power cord specified exceeds 3M the 100mΩ limit common on many PAT testers may be exceeded. This does not mean the product has failed. The length of the cord should be checked and the appropriate allowance made.

Conductor Continuity and Polarity

The system should be checked to ensure correct polarity and continuity of all wiring.

Insulation Resistance

The insulation resistance between LINE/NEUTRAL and EARTH should be measured using a 500VDC. test supply. The measured resistance should not be less than 1.0MΩ.

Flash Test

A flash voltage of 1500VAC between LINE/NEUTRAL and EARTH should exhibit a leakage of under 1mA. Note: where the power cord exceeds 3M, the unit may exhibit higher leakage. The appropriate allowance should be made.

Both insulation and flash testing may ONLY be carried out LN-E. Testing between L-N may give erroneous results due to the Neon indicator (if fitted).

Notes on units with integral filters

Units with integral filter systems may be LN-E insulation tested at 500VDC but if flash tested at 1500VAC, they will exhibit high leakage readings under insulation tests due to the nature of the filtering components.

The quiescent earth leakage of the filter unit under normal conditions may be checked and should not exceed 0.9mA at 250V~ 50Hz.

L to N flash and insulation tests would be inconclusive due to the presence of the filter system and may damage the surge suppression circuitry.

Uses

This system has been designed to conform to the latest safety requirements. In addition to compliance with standards for general use, this PDU has been factory configured for use in 19” rack mounting environments. This does NOT preclude their use in other situations.

Safety Precautions

Ensure all equipment is unplugged before carrying out any testing.

Testing of this nature should only be carried out by suitably qualified individuals.

CAUTION: USE ONLY IN DRY LOCATIONS / ATTENTION: UTILISER UNIQUEMENT DANS DES EMPLACEMENTS SECS

THE INFORMATION GIVEN IN THIS LEAFLET IS SUBJECT TO CHANGE WITHOUT NOTICE. ANY GUIDANCE NOTES ARE GIVEN WITH REGARDS TO COMPLYING WITH SPECIFIC STANDARDS ARE PROVIDED AS AN AID TO THE INSTALLER AND ARE INTERPRETATIONS OF THOSE STANDARDS ONLY.

THESE INSTRUCTIONS ARE PRIMARILY INTENDED TO PROVIDE DETAILS ON THE SAFE USE AND INSTALLATION OF THE ABOVE MAINS DISTRIBUTION SYSTEM.

NOTICE: FOR PLUGGABLE EQUIPMENT, THE SOCKET OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE. THE PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN

ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

Additional Information

For more information about the Dominion PX and the entire Raritan product line, see Raritan's website (www.raritan.com). For technical issues, contact Raritan Technical Support. See the Contact Support page in the Support section on Raritan's website for technical support contact information worldwide.