

# The Migration Guide for the NPort 5600-DT Series

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### About Moxa

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things. With over 35 years of industry experience, Moxa has connected more than 111 million devices worldwide and has a distribution and service network that reaches customers in more than 91 countries. Moxa delivers lasting business value by empowering industry with reliable networks and sincere service for industrial communications infrastructures. Information about Moxa’s solutions is available at [www.moxa.com](http://www.moxa.com).

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## 1 Introduction

This document helps you seamlessly migrate to the NPort 5600-DT-G2 Series. It addresses all aspects of the transition, from dimensions and mounting types to software configurations. We strongly recommend reviewing this guide and considering the NPort 5600-DT-G2 Series as part of the next generation of your comprehensive solution.

## 2 Appearance, Dimensions, and Mounting Types

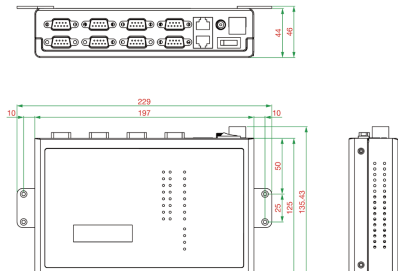
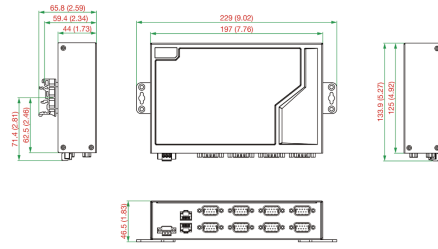
When considering upgrading from the NPort 5600-DT to the NPort 5600-DT-G2 Series, first determine if the change is because of an application, system, or device server update.

If the change affects the entire system, the specifics regarding appearance, size, or mounting can be secondary because you'll be able to adapt to the new system. Find all the information you need for designing a new system in Chapter 2.

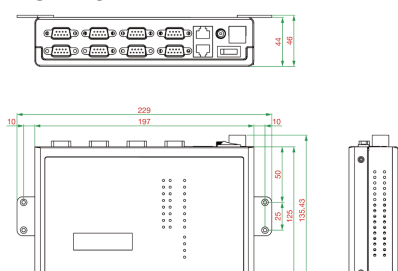
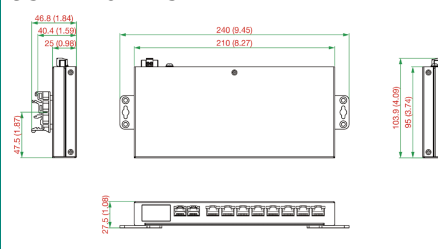
However, if it is even only a minor change involving the device server, the dimensions and interfaces of the NPort 5600-DT-G2 Series become crucial. Variations in these aspects may incur extra costs if the new models require you to change connection cables or need more space.

## 2.1 Dimensions

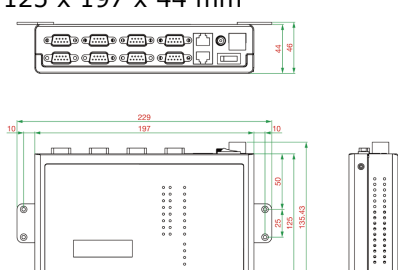
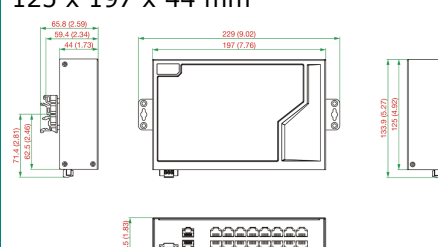
To avoid additional costs when switching from an NPort 5600-DT device server to an NPort 5600-DT-G2, you can rest assured that the dimensions of the NPort 5600-DT-G2 are the same as or smaller than those of the NPort 5600-DT. This ensures that you do not need to change their existing designs. The detailed dimensions for both the NPort 5600-DT and NPort 5600-DT-G2 are as below.

	<b>NPort 5610-8-DT/5650-8-DT/ 5650I-8-DT</b>	<b>NPort 5610-8-DT-G2/5650-8- DT-G2/5650I-8-DT-G2</b>
Dimensions	125 x 197 x 44 mm 	125 x 197 x 44 mm 

If you want a device server with 8-port serial ports but a smaller size, you may consider the NPort 5610-8-DTS-J-G2/5650-8-DTS-J-G2 models.





	<b>NPort 5610-8-DT/5650-8-DT/ 5650I-8-DT</b>	<b>NPort 5610-8-DTS-J-G2/ NPort 5650-8-DTS-J-G2</b>
Dimensions	125 x 197 x 44 mm 	95 x 210 x 25 mm 

If you want the same dimensions but more serial ports, you may consider the NPort 5610-16-DT-J-G2/5650-16-DT-J-G2 models.

	<b>NPort 5610-8-DT/5650-8-DT/ 5650I-8-DT</b>	<b>NPort 5610-16-DT-J-G2/ NPort 5650-16-DT-J-G2</b>
Dimensions	125 x 197 x 44 mm 	125 x 197 x 44 mm 

## 2.2 Appearance

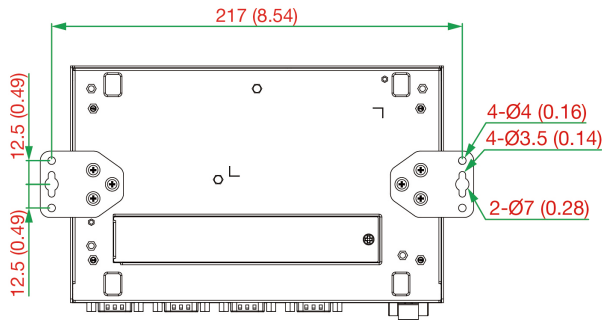
The redesigned LED indicators are easier to understand.

<p><b>NPort 5610-8-DT/5650-8-DT/ 5650I-8-DT</b></p>	<p><b>NPort 5610-8-DT-G2/5650-8-DT- G2/5650I-8-DT-G2</b></p>
	
	<p><b>NPort 5610-16-DT-J-G2/ NPort 5650-16-DT-J-G2</b></p>
	
	<p><b>NPort 5610-8-DTS-J-G2/ NPort 5650-8-DTS-J-G2</b></p>
	

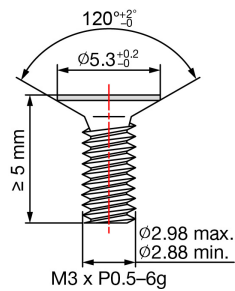
### 2.3 Mounting Types

The NPort 5600-DT-G2 can be placed flat on a desktop or other horizontal surfaces. It also includes a wall-mounting kit in the box, which can be used to mount the NPort to a wall or the inside of a cabinet. You can order a DIN-rail mounting kit (DK-43-01) separately for different placement options, as illustrated in the following diagrams:

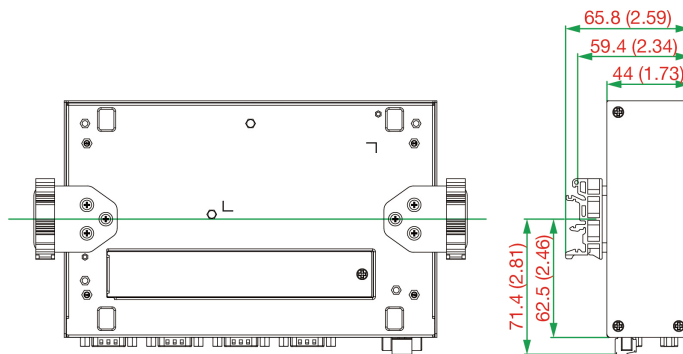
#### Wall Mounting



For attaching the device server to a wall, it requires two screws. The requirements of the screws are:



#### DIN-rail Mounting (with optional DIN-rail mounting kit: DK-43-01)



The mounting kit packages include screws. However, if you prefer to buy your own, refer to the dimensions below:

- Wall-mounting kit screws: FMS M3 x 5 mm
- DIN-rail mounting kit screws: FTS M3 x 5 mm

## 3 Software Transition

Regarding cybersecurity concerns, the NPort 5600-DT-G2 Series only supports Device Search Utility v3.x and later. Moxa developed a next-generation communication protocol between the Device Search Utility v3.x and the NPort 5600-DT-G2 Series. Encryption secures most commands and responses during communication. If you would like to cooperate further with Moxa on the new communication protocol, contact the sales representative in your region.

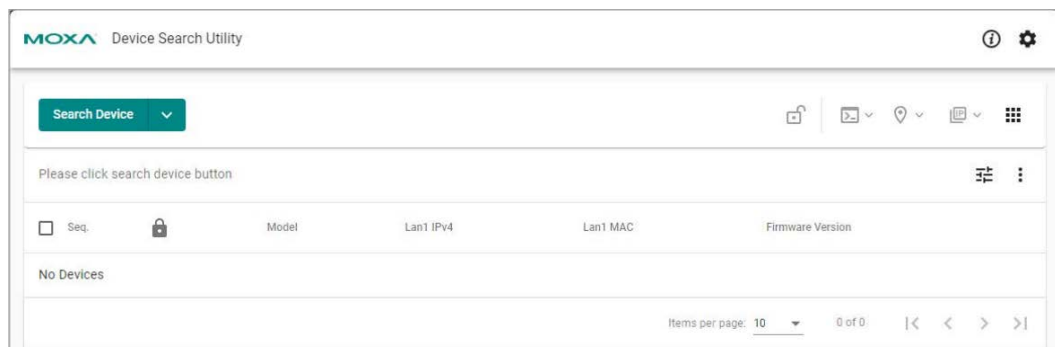
The Device Search Utility v3.x also supports the NPort 5000, NPort 6000, and other NPort Series. If you want to manage existing NPort products, like the NPort 5000 or NPort 6000, we recommend you upgrade the Device Search Utility to version 3.x or later. It supports all the NPort products.

### 3.1 Device Search Utility

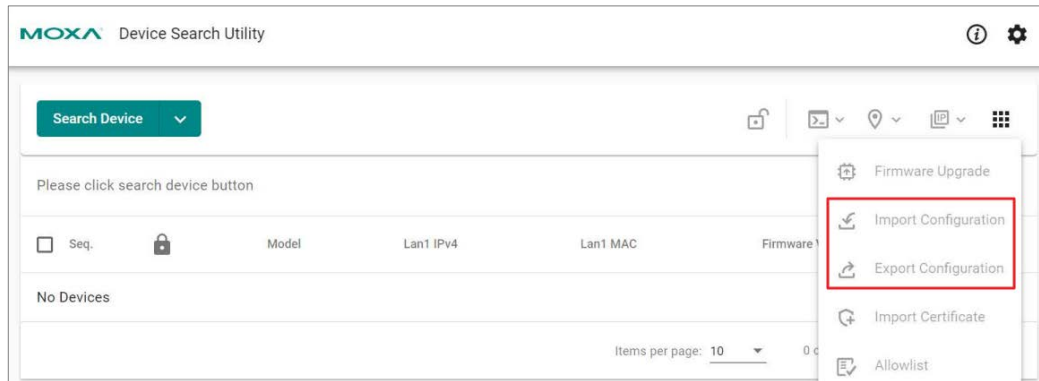
The NPort 5600-DT-G2 can only be supported by Device Search Utility v3.x. Download the utility from the NPort's product support page. The major changes in Device Search Utility v3.x are:

1. Web user interface
2. Support import certificate
3. Batch configuration, including import/export configuration, import certificate, firmware update, restart, reset, etc
4. COM Mapping support
5. Multilingual support
6. Saving the searched list to a file

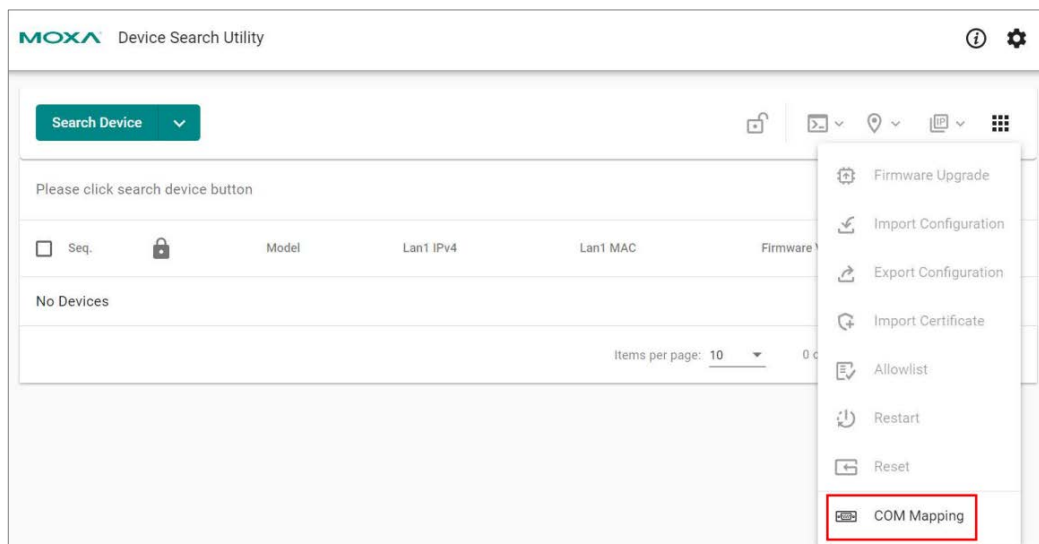
After upgrading to Device Search Utility v3.x, it's easy to find a new web user interface.



Upon execution, Device Search Utility v3.x instantly finds available NPort device servers on the network. Select multiple NPort 5600-DT devices and export the configuration files. Import them to the NPort 5600-DT-G2 models to complete the configuration transition.



If you want to add the NPort 5600-DT-G2 to the network and map new virtual COM ports, select the COM Mapping function to execute the NPort Windows Driver Manager (introduced in the next section) to complete it.



Refer to the Device Search Utility v3.x User Manual on the NPort's product support page for instructions.

## 3.2 Windows Driver Manager

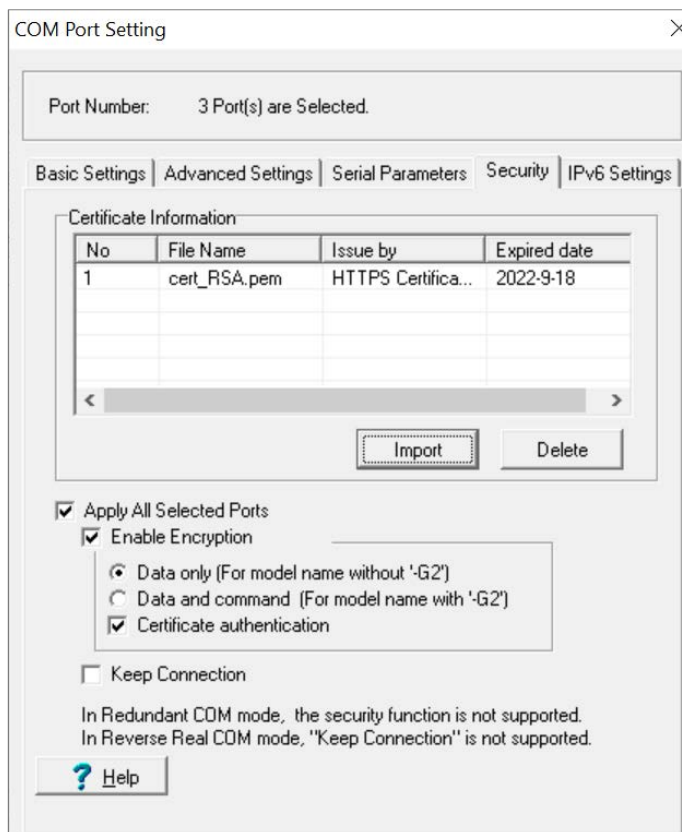
The NPort 5600-DT-G2 is required to use Windows Driver Manager v3.6 (supporting Windows 7 to 10, Server 2008 R2 to Server 2019) and v4.3 (supporting Windows 11 and later, Windows Server 2022 and later).

There's no need to worry if your computer already has earlier versions with mapped COM ports installed. Upgrading the software to v3.6 or v4.3 will not affect the COM mapping.

Most of the utility's functions remain the same. Because of cybersecurity concerns, all the TCP sessions between the NPort 5600-DT-G2 and the NPort Windows Driver Manager will be encrypted, including the data port and command port.

Select the virtual COM port (mapped for NPort 5600-DT-G2) and select **COM Port Settings**. Switch to the **Security** tab to enable the **Enable Encryption** and **Data and command** options.

- **Data only** is for the NPort 6000 models.
- **Data and command** is for the NPort 6000-G2/5600-DT-G2/IA5000-G2 models.

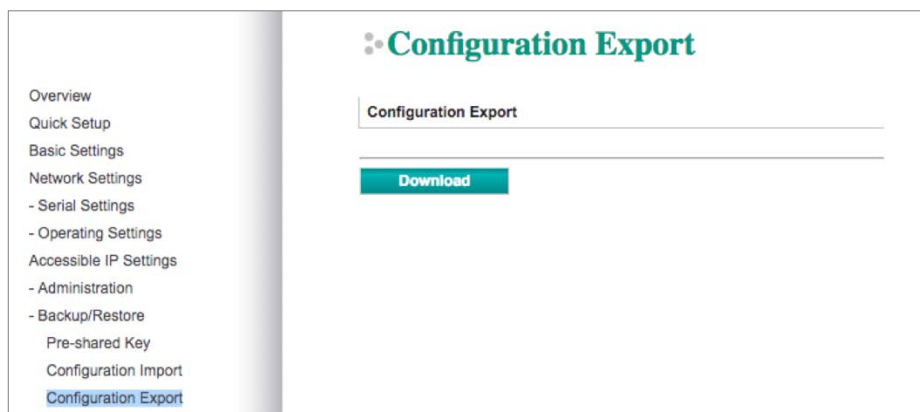


## 4 Configuration Transition From NPort 5600-DT to NPort 5600-DT-G2

The NPort 5600-DT Series, introduced to the market around 20 years ago, has a notably long product life cycle. Given its extensive history, engineers may not be familiar with every detail of its configuration settings. This unfamiliarity can lead to hesitation when transitioning to the new NPort 5600-DT-G2 Series, as engineers might be concerned about replicating the settings of the original NPort 5600-DT. To address this issue, the NPort 5600-DT-G2 Series offers a solution by allowing engineers to directly import configuration files from the NPort 5600-DT Series. This feature facilitates the seamless transfer of existing settings from the NPort 5600-DT to the new NPort 5600-DT-G2 Series.

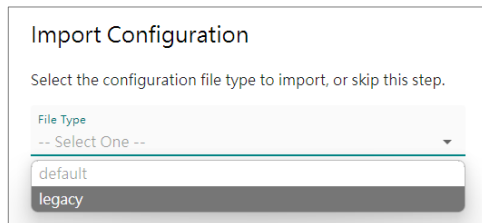
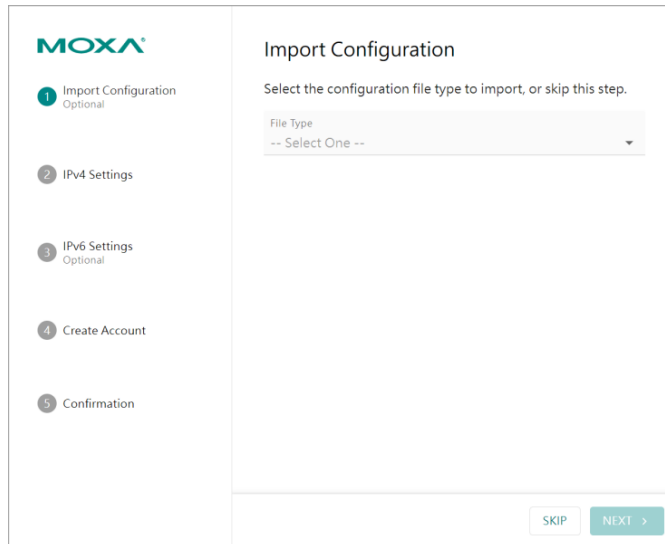
### 4.1 Exporting the Configuration File From an NPort 5600-DT

Log in to the web console of the NPort 5600-DT and navigate to the **System Configuration > Backup/Restore** page. Enter the pre-shared key as the password for the other NPort to import the file. Select the **Export** button to save the existing configuration settings.

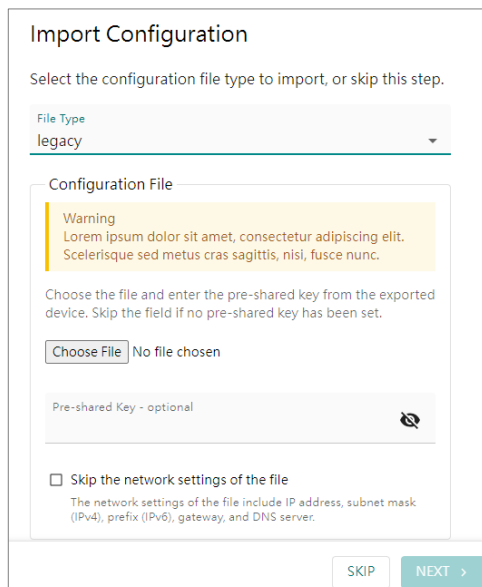


## 4.2 Import Configuration File to an NPort 5600-DT-G2

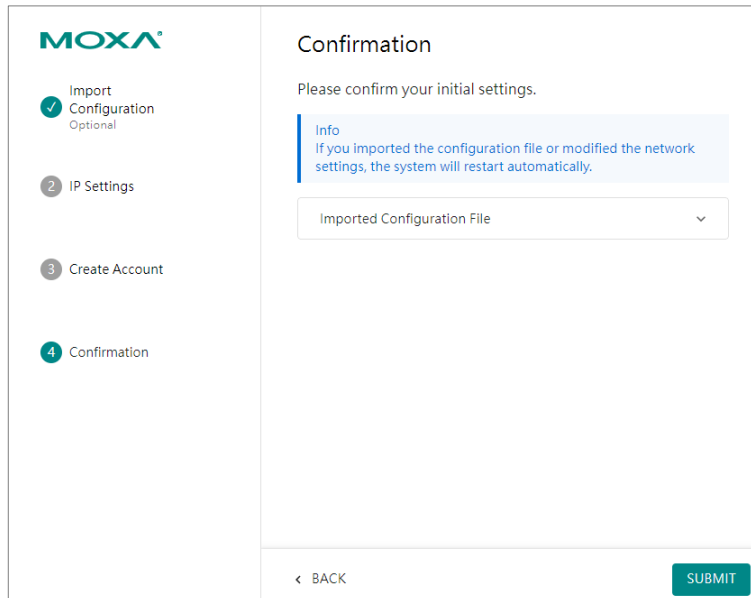
When you log into the web console of the NPort 5600-DT-G2 for the first time by entering **https://192.168.127.254**, you will trigger the first-time login process. The first step prompts you to import an existing configuration file.



Select the **File Type > legacy** to display the advanced options.



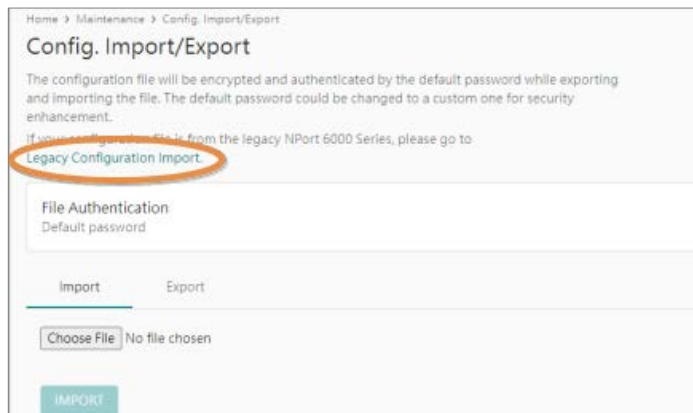
Select the **Choose File** button to choose the configuration file from the NPort 5600-DT and enter the pre-shared key while exporting the configuration file. Select the **NEXT** button.



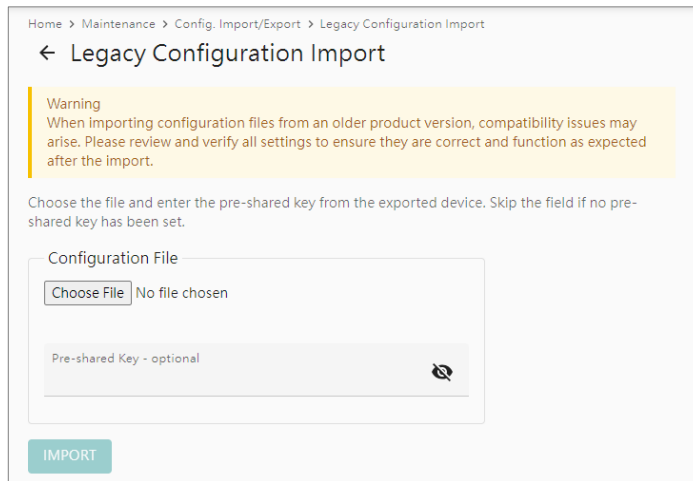
The screenshot shows the Moxa web console interface. On the left, a vertical sidebar contains a progress indicator with four steps: 1. Import Configuration (Optional), 2. IP Settings, 3. Create Account, and 4. Confirmation (highlighted with a green circle). The main content area is titled "Confirmation" and contains the text "Please confirm your initial settings." Below this is an "Info" box with a blue border and text: "If you imported the configuration file or modified the network settings, the system will restart automatically." Underneath the info box is a dropdown menu labeled "Imported Configuration File". At the bottom of the page, there are two buttons: "< BACK" and "SUBMIT".

Select the **SUBMIT** button, and the device will import the configuration file and restart itself. All the configuration settings will be imported after the process.

If you missed the first-time login process, you can still log in to the web console and navigate to **Maintenance > Config. Import/Export**. Locate the **Legacy Configuration Import** function and select the hyperlink.



The screenshot shows the "Config. Import/Export" page in the Moxa web console. The breadcrumb trail is "Home > Maintenance > Config. Import/Export". The page title is "Config. Import/Export". Below the title, there is a paragraph of text: "The configuration file will be encrypted and authenticated by the default password while exporting and importing the file. The default password could be changed to a custom one for security enhancement." Below this is another paragraph: "If you are migrating files from the legacy NPort 6000 Series, please go to [Legacy Configuration Import](#)." The "Legacy Configuration Import" link is circled in orange. Below the text is a "File Authentication" section with a "Default password" input field. There are two tabs: "Import" (selected) and "Export". Below the tabs is a "Choose File" button next to the text "No file chosen". At the bottom, there is an "IMPORT" button.



The screenshot shows a web interface for 'Legacy Configuration Import'. At the top, there is a breadcrumb trail: 'Home > Maintenance > Config. Import/Export > Legacy Configuration Import'. Below this is a back arrow and the title 'Legacy Configuration Import'. A yellow warning box contains the text: 'Warning: When importing configuration files from an older product version, compatibility issues may arise. Please review and verify all settings to ensure they are correct and function as expected after the import.' Below the warning, instructions state: 'Choose the file and enter the pre-shared key from the exported device. Skip the field if no pre-shared key has been set.' The form includes a 'Configuration File' section with a 'Choose File' button and the text 'No file chosen'. Below that is a 'Pre-shared Key - optional' text input field with a clear icon. At the bottom left of the form is a teal 'IMPORT' button.

Select the **Choose File** button to choose the configuration file from the NPort 5600-DT and enter the pre-shared key while exporting the configuration file. Select the **IMPORT** button to replicate the configuration settings.

## 5 Frequently Asked Questions

### 5.1 Why Some Configurations May Not Be Imported From an NPort 5600-DT to an NPort 5600-DT-G2

Certain functions are not supported by the NPort 5600-DT-G2 Series. When you import a configuration file from the NPort 5600-DT, the NPort 5600-DT-G2 Series will retain the default settings for these unsupported functions. The following functions are not supported by the NPort 5600-DT-G2 Series:

- BOOTP
- Ethernet modem mode of operation modes
- Cipher setting
- User table of operation mode
- Unsupported event settings