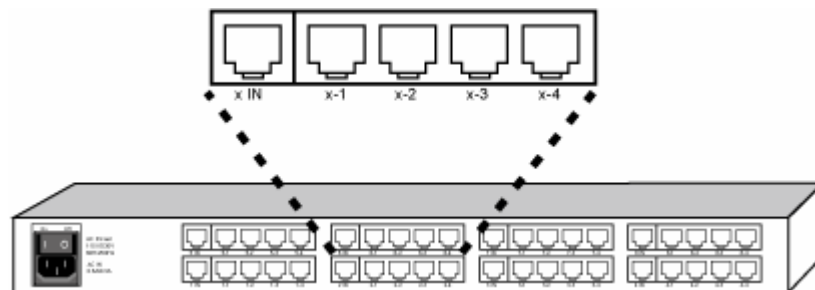


P2-HubPac Upgrade Operation

P2-HubPac allows you to upgrade it by yourself from the firmware version 0C6 onward. To upgrade it, you must obtain a USB-to-RS485 cable (model: **P2-IAPCIM**) from Raritan Tech Support.

Different from other Paragon II devices, the firmware upgrade of the HubPac requires the same upgrade operation to be performed 8 times on the same HubPac device. This is because the HubPac contains 8 five-port clusters and each cluster needs to be upgraded one after another.

The following diagram illustrates a five-port cluster, where x indicates the cluster number.



Firmware upgrade of the HubPac covers these major steps:

STEP 1: Obtain the latest firmware, driver and release notes

STEP 2: Install the driver on the PC

STEP 3: Connect the HubPac to the PC

STEP 4: Launch the Paragon Update utility (version 2.4.4 or later)

STEP 5: Repeat STEP 3 and STEP 4 for the other clusters

STEP 1: Download the Latest Firmware, Driver and Release Notes

1. Obtain the USB-to-RS485 driver from Raritan Tech Support.
2. Download the current P2-HubPac firmware from the Raritan web site.
3. Download the latest Paragon Update application from the Raritan web site.

STEP 2: Install the USB-to-RS485 Driver on the PC

The USB-to-RS485 cable connects the HubPac and the PC that is used to upgrade the HubPac. Prior to the connection, install the USB-to-RS485 driver on the PC.

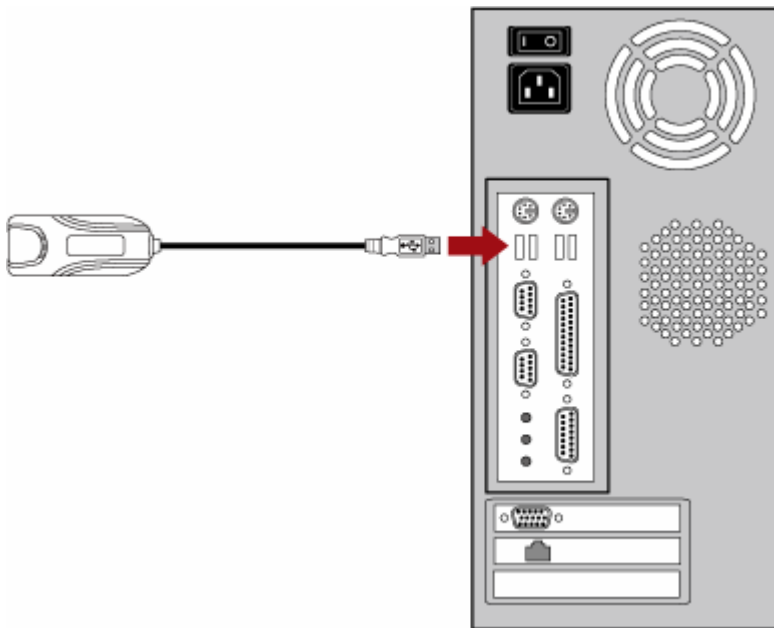
1. Unzip the USB driver zip file.
2. Plug in the USB-to-RS485 cable.
3. Follow the onscreen instructions to complete the installation.

STEP 3: Connect the HubPac to the PC

Now you can connect the HubPac, through the USB-to-RS485 cable, to the PC that is used to upgrade the HubPac.

Make the connection

1. Connect the USB connector of the USB-to-RS485 cable to one USB port of the PC.



2. Connect one CAT5 UTP cable to the connector of the USB-to-RS485 cable.



3. Connect the other end of the same CAT5 UTP cable to the server connection port of one cluster on the HubPac. The server connection port is located on the left of a cluster, and it is marked as **x IN**, where x is the cluster number.



Check the COM port number

After connecting the HubPac to the PC via the USB-to-RS485 cable, the PC assigns a COM port to it. This port number is indispensable for the firmware upgrade. Therefore, follow the procedure below to retrieve the port information.

1. Choose **Start > Control Panel > System**. The *System Properties* dialog appears.
2. Click the **Hardware** tab.
3. Click **Device Manager**. The *Device Manager* window appears.
4. Click the plus (+) symbol beside **Ports (COM & LPT)** to expand the item.
5. Locate “Prolific USB to Serial Comm Port (COMx),” where x is the COM port number that your PC assigns to the USB-to-RS485 cable. Write down the COM port number for later use.

Note: If you cannot find “Prolific USB to Serial Comm Port (COMx),” either you haven’t installed the USB-to-RS485 driver or the USB-to-RS485 driver installation was not successful. When this occurs, reinstall the USB-to-RS485 driver by following the procedure described in **STEP 2: Install the USB-to-RS485 Driver on the PC**.

STEP 4: Launch the Paragon Update utility (Version 2.4.4 or Later)

After the hardware connection is completed, you can execute the Paragon Update utility to upgrade the firmware. Note that the Paragon Update utility must be version 2.4.4 or higher. Any earlier version does not have this capability. Therefore, we strongly recommend that you use the latest version of the Paragon Update utility which you downloaded along with the HubPac firmware to ensure the success of the upgrade.

1. Double click “ParagonUpdate_XXX.exe” (XXX represents the version). The *Paragon Update* window appears.
2. Specify the device information of the connected HubPac.
 - a. Type a name for the HubPac in the **Name** field.

- b. Choose <Default Serial> in the **IP address/Serial** field.
- c. Type the COM port number **that your PC assigns** to the HubPac in the **Port** field.

	Name	IP address/Serial	Port	Encryption Key
<input checked="" type="checkbox"/>	HubPac	<Default Serial>	4	<Default No Encryption>

3. Select the checkbox (☒) beside the HubPac device.
4. Click **Load Hex File** and navigate to select the appropriate firmware file.
5. Click **Send To Paragon**.
6. Click **Yes**. The utility starts to upgrade the “connected cluster” of the HubPac.

STEP 5: Repeat STEP 3 and STEP 4 for the Other Clusters

Now you have upgraded one cluster of the HubPac by following the above procedure. To upgrade the other clusters:

1. Connect the server connection port of “another cluster” on the same HubPac to the same PC, as described in **STEP 3: Connect the HubPac to the PC**.
2. Repeat the same Paragon Update utility operation to upgrade the connected cluster, as described in STEP 4: Launch the Paragon Update utility (Version 2.4.4 or Later).