RESOURCES & NEXT STEPS

Develop business applications using the Impinj IoT device interface, Impinj Octane SDK, the Impinj Octane LLRP toolkit, or Impinj R700 ETK. For more information, contact Impinj using the resources listed below.

- Sales: www.impinj.com/contact-us
- Support: support.impinj.com
- Developer site: developer.impinj.com
- Postal Address: 400 Fairview Avenue North, Suite 1200, Seattle, WA 98109

NOTICES

Impinj R700 Antenna Hub

OVERVIEW

This guide provides basic instructions to configure an RFID system using the Impinj R700 Antenna Hub with an Impinj R700 RAIN RFID Reader. Additional details can be found in the Impinj R700 Installation and Operations guide available at support.impinj.com.

Box Contents

- 1 x Impinj R700 Antenna Hub

Required Accessories Sold Separately

- Impinj R700 RAIN RFID Reader IPJ-R700
- SMA to R-TNC cable IPJ-A3002-000
- Antennas and additional RF Cable

Connections and Ports

- 1 SMA port to connect to Impinj R700 Reader port
- 8 SMA ports to connect to RFID Antennas

Connect RF Cables

1. Power off the Impinj R700 Reader

2. Using an SMA to R-TNC cable, connect the SMA port on the Antenna Hub nearest the Impinj Logo to a port on the R700 Reader

3. Connect Antennas to the other ports available on the Antenna Hub

4. Unused ports on the Antenna Hub can be left empty or terminated

Log into the reader and enable the Antenna Hub Feature

1. Make sure your Impinj R700 reader is powered and connected to the local network via Ethernet.

2. Open a new browser tab. Connect to the Impinj R700 Reader by entering either the reader hostname or IP address into the URL.

   - **Impinj R700 Hostname:** http://impinj-XX-XX-XX where XX-XX-XX is the last 3 octets of the reader MAC address.

   - The MAC address is printed on labels affixed to the reader and shipping box.

   NOTE: If you are connecting your Impinj R700 reader to a network with static IP addressing, refer to Impinj R700 Installation and Operations Guide on the Support Portal for instructions.

3. Sign into the reader in the popup window

   - The default credentials are username: root password: impinj

4. The reader web configuration page will open

5. Verify that the Impinj R700 Reader is running a 7.3 version of firmware or later, if the Reader needs a newer version of firmware follow the instructions below

   - Download the firmware upgrade file from the Impinj support portal or contact an authorized Impinj partner

   - Click the Browse button next to Select Upgrade File in the web configuration page

   - Navigate to the firmware upgrade file

   - Click Upgrade (this may take several minutes)

   - Click Reboot

6. In the web configuration page, click on the "Enable" button in the Antenna Hub section to enable the the Hub. Reboot the reader by selecting the reboot button for the changes to take effect

7. Once the reader has rebooted the lights on the enabled antenna hubs will cycle sequentially to show they are connected

Verify Antenna Connection in the Web Configuration Page

1. Select 'Check Connections' in The Antenna Hub Section to troubleshoot any issues with connecting Antennas

Mount the Antenna Hub

1. Using the ¼" mounting holes affix the Antenna Hub to a suitable surface

   - It may be necessary to remove RF cables while mounting the Antenna Hub