

RESOURCES & NEXT STEPS

Develop business applications using ItemSense software, Speedway Connect software, the Octane Software Development Kit, (SDK) or the LLRP Toolkit (LTK). For more information, contact Impinj using the resources listed below.

- Sales: www.impinj.com/contact-us
- Support: support.impinj.com

REGULATORY

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Impinj, Inc., declares that the radio equipment type IPJ-REV-R420-EU2, IPJ-REV-R660-EU2, or IPJ-REV-R680-EU2 are in compliance with Directive 2014/53/EU, EMC Directive 2014/30/EU, and RoHS 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://support.impinj.com/hc/en-us/sections/360000583040>



The EU countries indicated below have not approved RFID use in the 916.1 to 918.9 MHz frequency band:

AT BE BG CZ DE EL ES FI HR IS IT LT MT
NL PL RO SE SK TR

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Quick Start Guide

IMPINJ xARRAY® GATEWAY

OVERVIEW

This guide provides simple steps to quickly start using your new xArray® gateway. For a full description of connection methods, reader configuration and system setup options, please consult the xArray Installation and Operations Manual.



Box Contents

- 1 xArray Gateway
- 1 Quick Start Guide
- Safety Screw (and Allen Wrench)

Accessories Sold Separately

- Universal Power Supply
- Region-Specific AC Power Cord
- Console Cable
- Speedway Connect Software
- ItemSense Software

Connections and Ports

- +24 VDC Locking Power Supply (24 V, 2.1 A minimum)
- RJ-45 10/100 BASE-T Ethernet Port
 - Power over Ethernet (PoE / PoE+) Enabled
- USB Type-B Device
- USB Type-A Host
- Management Console Port

Software for Download

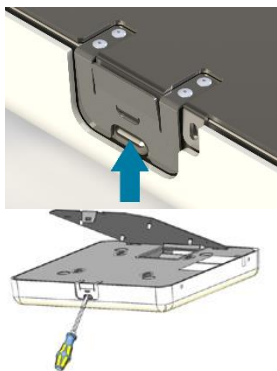
Before getting started, download and install the following on your PC:

- ItemTest software (available on the Impinj Support Portal – PC only)
- Latest Octane firmware (available on the Impinj Support Portal)
- Bonjour Print Services (third party application)
 - Bonjour Print Services is free for download on the Apple support site at the following URL (<https://support.apple.com/kb/dl999>)

Unfasten the Mounting Plate

The xArray gateway has a detachable mounting plate to serve all applicable mount configurations. It must be unfastened to access the gateway's ports and connectors

1. Insert a flathead screwdriver into the latching mechanism as shown. Push the mounting clip out and unfasten the mounting plate.
2. If unfastened correctly, the mounting plate should slide and release. It can be removed during setup.



Powering the Gateway

The gateway can be powered in one of two ways: through the gateway's Power over Ethernet (PoE / PoE+) capability, or with an AC power source.

NOTE: Use either AC Power or PoE / PoE+. Do not use both simultaneously.

With PoE / PoE+

1. Use the appropriate PoE/PoE+ Power Sourcing Equipment (PSE).
 - R680-EU2 models: IEEE 802.3at certified (PoE+)
 - All other models: IEEE 802.3af certified (PoE)
2. Route an Ethernet cable from the PSE to the Ethernet port.

With AC Power

1. Connect an Impinj universal power supply to the +24VDC power supply port

NOTE: This product is intended to be supplied with a Listed/Certified power supply, marked LPS or Class 2, with 24Vdc output, rated minimum 2.1A. (Ce produit est conçu pour être alimenté avec une alimentation Mis / certifiés, marqué LPS ou de classe 2, avec sortie 24V, 2,1 A nominal minimum)

xArray Connectivity

LAN with DHCP Services (Recommended)

1. If connecting to a network with a DHCP server, determine the xArray hostname.
 - **Hostname:** xarray-XX-XX-XX (where XX-XX-XX is the last 3 hex couplets of the reader MAC address, e.g. xarray-12-AB-CD)
2. If desired, test your connection by pinging <hostname>.local (e.g., ping xarray-12-AB-CD.local).

Static IP (Optional)

1. Connect the xArray console port to a PC. xArray provides an RJ-45 console (RS-232) port. Recommended adapter(s): RJ-45 to DB9 (RS-232) to USB.
2. Use PuTTY command line interface to configure a static IP address (consult the xArray Installation and Operations Manual) and record.
 - **Static IP:** 192.168.XXX.XXX (where XXX is a LAN set number 0-254)

NOTE: If you're using WAN-based networking such as a Cellular Modem, go to the Impinj Support Portal for instructions.

Directly to the Computer (Optional)

1. Access the gateway at IP address 169.254.1.1.
 - **Direct Connection IP:** 169.254.1.1

Updating the Firmware

1. Connect to the WebUI using a web browser <http://<Hostname or Static IP or Direct Connection IP>>.
2. Log in using default credentials:
 - username: **root**
 - password: **impinj**
3. Select your region from the drop-down list. (Optional)

NOTE: The user is responsible for ensuring operation with the correct RF settings and is solely responsible for any fines and other damages due to incorrect or non-compliant country/region settings

NOTE: GX1 and GX2 gateways have no region pre-configured and will not transmit RAIN RFID signals until a region is selected.

4. The gateway runs Impinj Octane firmware. Make a note of the "Software Version" shown on the WebUI. If you are not running the latest version, upgrade using the "Reader Upgrade" utility in the WebUI. (Download from the Support Portal or ask your Impinj authorized partner for the latest released version.)
5. Click the REBOOT button. When changing operating region, the change does not take effect until the next reboot.

Using ItemTest Software

1. Install and open the ItemTest software PC application.
2. Click "Reader Settings," and click "New."
3. Enter the **Hostname** or **Static IP** or **Direct Connection IP** and click "Ok."
4. Select the "Inventory" tab. Place tags in the field of view. (Tags sold separately.) Click the Start button and watch tag information as it is read and displayed.
5. You may explore additional features by clicking on "Help" and opening "User Guide."

Fasten the Gateway to the Mounting Plate

1. Swing the xArray chassis upwards towards the mounting plate and latch mechanism with sufficient force to ensure a successful connection.

NOTE: The user has the option to apply the safety screw with the Allen wrench included in the packaging to prevent unwanted removal of the mounting plate. The screw hole is located next to the latch mechanism as shown.

