Insist on RFID Solutions Powered by Impinj

The choice of components that make up an RFID system determines the quality, reliability and performance of an RFID implementation. Impinj customers realize increased system data reliability, greater insight into the supply chain, safer products,improved customer experience, and more.

IMPINJ SOLUTIONS

Software	Impinj's application software, including Speedway Connect, Octane SDK, and the STP™ source tagging platform, helps you quickly integrate RFID into existing systems and provide flexibility for additional functionality in your solution.
Reader Antennas	The Impinj family of reader antennas controls read zones from point of sale to packaging lines.
Tag Chips	Monza® tag chips set the standard in RFID performance and features, providing the industry's best sensitivity, omni-directional antenna support, and innovative privacy features.
Reader Chips	Indy® reader chips provide integration and supporting software to power a full range of RFID readers and embedded applications.

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Quick Start Guide

SPEEDWAY® REVOLUTION READER

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

Box Contents

- 1 Speedway Revolution reader
- 1 Quick Start Guide
- May include tag samples from Impinj inlay partners* featuring Monza® chips

Available separately:

- Power supply**
- Power cord
- Console cable
- Antenna

SPEEDWAY REVOLUTION READER CONNECTORS

1	+24 VDC locking power supply connector	**4**	Management console port (RJ45)
2	10/100Base-T Ethernet port (RJ45)	**5**	GPIO (DB-15)
3	USB Device and Host ports	**6**	Antenna ports (RP TNC)
		7	LED indicators

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

http://support.impinj.com/downloads

- Impinj Multireader Software Utility
- Speedway Revolution Installation and Operations Manual

http://support.apple.com/kb/dl999

- Bonjour Print Services

*Samples are provided courtesy of our inlay partner(s), and may not be available with every reader. Samples are provided for use in reader setup and to experience unique Monza features, and are not intended to represent all the Monza-based inlay varieties available from Impinj inlay partners. We encourage you to ask your provider about RFID labels or inlays featuring Monza tags.

**This product is intended to be supplied with a Listed/Certified power supply, marked LPS or Class 2, with 24Vdc output, rated minimum 2.5A. (Ce produit est conçu pour être alimenté avec une alimentation Mis / certifiés, marqué LPS ou de classe 2, avec sortie 24V, 2,5 A nominal minimum)

Reading Tags with the Speedway Revolution Reader

1) Connect reader to a DHCP-enabled network

a) Connect the reader directly to your Ethernet network using a standard Ethernet cable (a crossover cable is not necessary).

b) Connect the RJ-45 connector on the reader to a LAN drop or network switch. A typical set-up is as follows:

c) This product is intended to be supplied with a Listed/Certified power supply, marked LPS or Class 2, with 24Vdc output, rated minimum 2.5A. When supplied from an IEEE 802.3af (Power over Ethernet) compliant power source which is certified by the appropriate agencies, the RF transmit power is limited to +30dBm. (Ce produit est conçu pour être alimenté avec une alimentation Mis / certifiés, marqué LPS ou de classe 2, avec sortie 24V, 2,5 A nominal minimum. Lorsqu'il est fourni à partir d'une norme IEEE 802.3af (Power over Ethernet) de la source d'alimentation conforme qui est certifié par le organismes appropriés, la puissance d'émission RF est limitée à 30 dBm.)

d) Ensure your PC has Bonjour Print Services enabled (install if necessary)

e) If desired, test your reader connection by pinging hostname.local. The hostname follows the format SpeedwayR-XX-XX-XX where XX-XX-XX is the last three couplets of the reader's MAC address (printed on reader label). (e.g., ping speedwayr-10-28-42.local)

NOTE: If your network does not support DHCP, use a Cisco-style console cable (RJ-45 to DB9) for a direct RS-232 serial connection to the reader. The reader's RShell command line interface can configure a static IP address for the reader (p.16, Installation and Operations Manual). Once completed, you can connect the reader over Ethernet.

2) Set reader region and check firmware version

a) Connect to reader WebUI using a web browser http://<reader name or IP address>.

b) Log in to the reader. Default credentials are:

user name: root
password: impinj

c) Select your region from the drop down list. You, the user, are responsible to ensure operation with the correct RF settings and are solely responsible for any fines and other damages due to incorrect or non-compliant country/region settings on your reader. NOTE: GX1 and GX2 readers have no region pre-configured and will not transmit RFID signals until region is selected.

d) Click the **REBOOT** button. When changing the reader's operating region, the effect of the change does not take effect until the next reboot.

e) Note the "Software Version" shown on the WebUI. Ask your authorized Impinj partner or reseller for the latest released version and upgrade if necessary using the "Reader Upgrade" utility in the WebUI. The reader firmware for Speedway Revolution is named Octane.

3) Read tags with Multireader software utility

a) Attach antenna RF cable to antenna port 1 on the reader.

b) Install (if necessary) and open the MultiReader application.

c) Click "Configure Settings" and add information to connect to your reader.

d) Place tags in the antenna's field of view. Click the Start Inventory button and watch tag information as it is read and displayed in MultiReader.

e) Some basic reader settings can be changed in Multireader, review Impinj documents to learn about each setting.

Resources & Next Steps

- Connect via RShell for advanced reader settings.
- Develop controlling application using Octane SDK.
- Find helpful information here:
  - http://www.impinj.com
  - http://support.impinj.com

SPEEDWAY READER ACCESSORIES

Description	Part Number
Universal Power Supply	IPJ-A2002-000
AC Power Cord (region-specific)	IPJ-A2051-xxx
GPIO Box	IPJ-A5000-000
Console Cable	IPJ-A4000-000
Extended Warranty	IPJ-C2001 / IPJ-C2003

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