IMPINJ®
INDY®

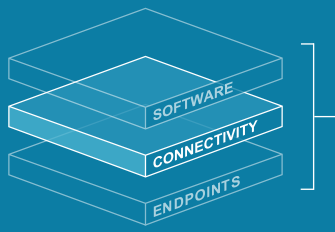
This product is not recommended for new designs. It began the End-of-Life process in September 2020. New orders must be received by March 4, 2021.

Indy RS1000 RAIN RFID Reader Module

The Impinj Indy RS1000 is a turnkey reader solution packaged as a surface-mount module. The Indy RS1000 builds on the Indy RS500 capabilities with increased read/write performance in the same small package.

An Embedded Solution for Vicinity Use Cases

Indy RS1000 surface-mount modules make embedding read/write capability quick and easy with low development risk and fast time to market. Ideal for applications requiring vicinity reads of moderate tag populations, Indy RS1000 modules enable a diverse range of connectivity devices such as POS terminals, handheld readers, tablets, smart kiosks, and shelf readers.



The Impinj Platform includes Connectivity Devices

Indy RS1000 Benefits

Turnkey Solution

Completely integrated and fully tested to meet worldwide compliance with module certification

Pin Compatibility with Indy RS500

Enables a single hardware design for both higher performance and lower cost applications

Ideal for Vicinity Readers

Delivers read reliability for moderate tag populations at longer range

Key Features

Easy System Integration

IRI (Impinj Radio Interface) API, Indy Tool Kit and sample code simplify the design and integration process

Vicinity Read Range

Optimal for applications requiring up to 6 meters read range

Modular Certification

FCC and Canada certified and tested to meet all major regions worldwide

This product is not recommended for new designs.

Use Cases

Loss Prevention

Ensure security and process control for people and assets with Indy RS1000-enabled fixed portal or handheld readers

Shopper Experience

Interactive mirrors and smart fitting rooms can identify products in proximity with Indy RS1000 embedded readers

Inventory Accuracy

Drive sales with enhanced store, in-transit or warehouse inventory visibility by using embedded or handheld readers based on Indy RS1000

Reader Chip and Module Overview

Impinj Indy reader chips and surface-mount modules provide the performance and flexibility needed to enable a full range of RAIN RFID solutions. Indy surface-mount modules provide low development risk and fast time-to-market while Indy chips offer a path to future cost optimization, all based on a common Indy platform.

Product Details	INDY RS500	INDY RS1000	INDY RS2000
Air Interface Protocol	RAIN RFID / ISO 18000–63 and EPCglobal Gen2v2 compliant		
Typical Read Range*	≤ 3 m	≤ 6 m	≤ 10 m
Output Power	10 to 23 dBm	10 to 27 dBm	10 to 31.5 dBm
Rx Sensitivity	-65 dBm	-75 dBm	-74 dBm
Antenna Ports	1		4
DC Power Supply	3.6 to 5.25 volts		3.2 to 5.25 volts
Power Consumption	2.5 watts @ 23 dBm	3.5 watts @ 27 dBm	7 watts @ 30 dBm
Temperature	Operating: -20 to +70 °C Storage: -30 to +100 °C		Operating: -20 to +60 °C Storage: -30 to +100 °C
Dimensions	29 x 32 mm		38 x 52 mm

Assumes 6 dBI reader antenna and far-field tag with Impinj Monza R6 chip

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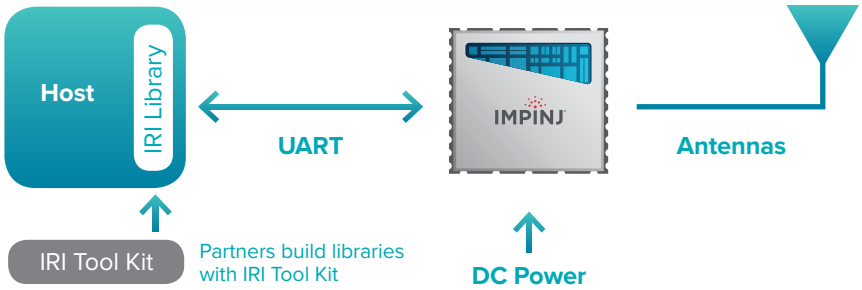
THREE SIMPLE CONNECTIONS

1. DC Power
2. UART Communication
3. RF Antennas



Ready to discuss how Impinj can help your business?

CONTACT US / WWW.IMPINJ.COM

Impinj (NASDAQ: PI) wirelessly connects billions of everyday items such as apparel, medical supplies, and automobile parts to consumer and business applications such as inventory management, patient safety, and asset tracking. The Impinj platform uses RAIN RFID to deliver timely information about these items to the digital world, thereby enabling the Internet of Things.

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