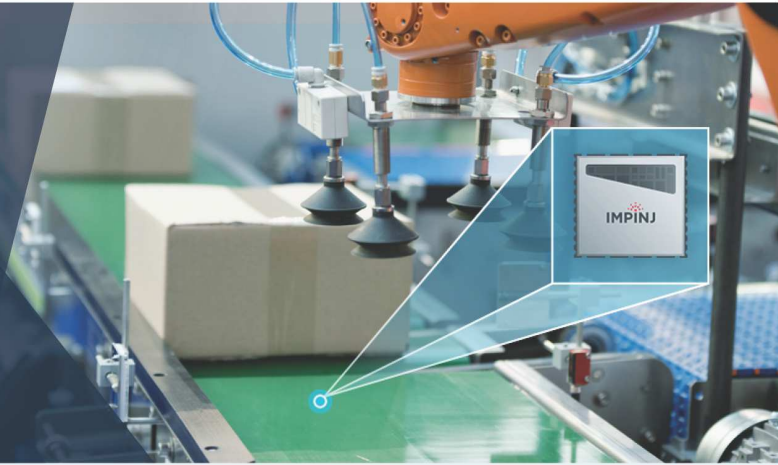


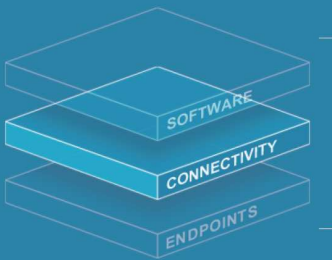
# Indy RS2000 RAIN RFID Reader Module

The Impinj Indy RS2000, a completely integrated surface-mount module, makes embedding high-performance RAIN RFID read/write capability quick and easy with low development risk and fast time-to-market.



## Embedded Solution for Demanding Use Cases

Ideal for applications requiring long read range of large tag populations, the small form factor and four antenna ports of the Indy RS2000 enable a wide range of fixed and mobile readers for inventory management, asset tracking, logistics, and industrial automation.



The Impinj Platform includes  
Connectivity Devices



## Indy RS2000 Benefits

### High Performance

Enables long read range of large tag populations for read reliability in challenging environments

### Small Form Factor

Small size (52 x 38 mm) enables a diverse range of connectivity devices and applications



### Easy Embedding

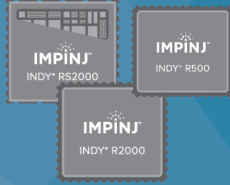
High integration enables quick and easy development with low risk and fast time-to-market

## Key Features

- **Ultra-High Output Power**  
31.5 dBm output power delivers design flexibility (up to four antenna ports)
- **Long Read Range**  
Market-leading receiver performance enables greater than 10 meters read range
- **Four Antenna Ports**  
Flexible configurability with two connector ports and two surface mount ports

## Use Cases

-  **Industrial Automation**  
Enable workflow efficiencies and enhance M2M communication with Indy RS2000-enabled automation solutions in industrial environments
-  **Asset Tracking**  
Improve efficiency of healthcare environments by managing medical equipment or consumables with portal, shelf or handheld readers
-  **Inventory Accuracy**  
Drive sales with enhanced store, in-transit, or warehouse inventory visibility with portal, shelf or handheld readers based on Indy RS2000



## Reader Chip and Module Family Overview

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.



**INDY RS500**



**INDY RS1000**



**INDY RS2000**

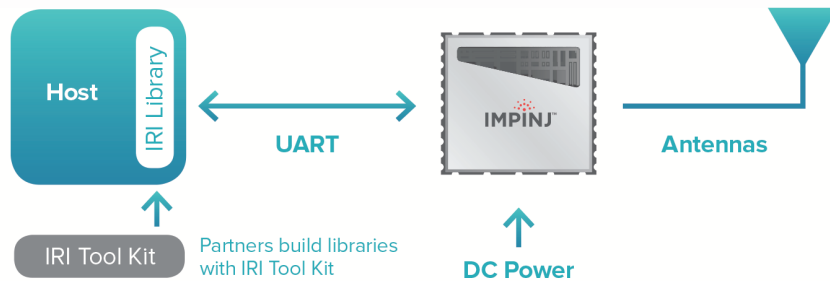
### Product Details

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

### THREE SIMPLE CONNECTIONS

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



Ready to discuss how Impinj can help your business?

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.

