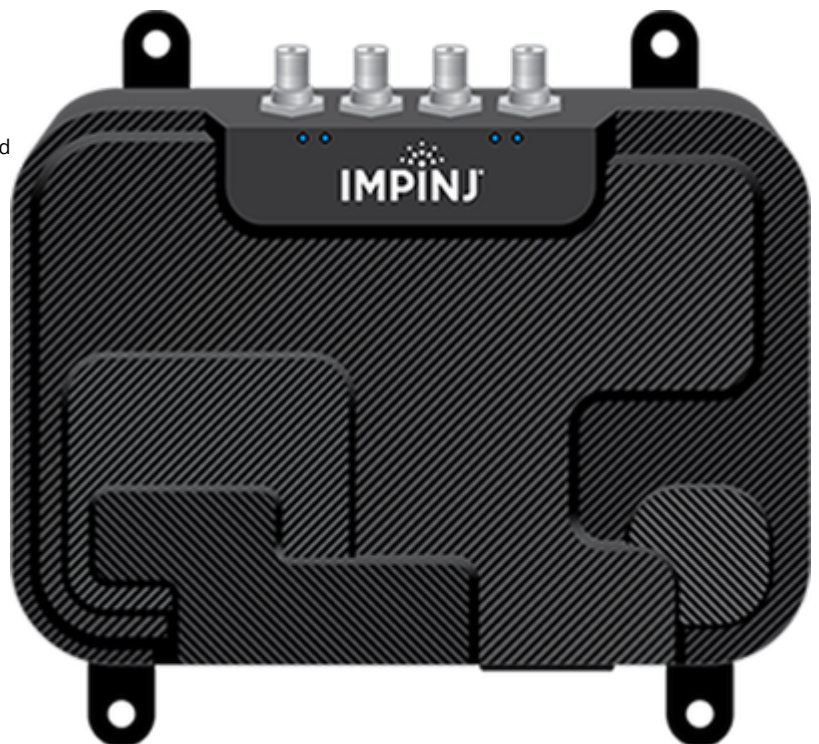




R700 RAIN RFID reader UHF Gen2, 4 ports

The Impinj R700 reader is designed to support global RAIN deployments that need industry-leading performance, enterprise-grade reliability and security, and support for next-gen RAIN tags.

The Impinj R700 reader provides industry-leading performance, enterprise reliability and security, and modern developer tools. IoT developers can easily build and deploy custom enterprise applications with a Linux OS, REST API, and native support for industry-standard data formats and protocols, such as MQTT. The Impinj R700 delivers increased support for on-reader applications – including 10x the processing power. Plus, when combined with tags based on Impinj M700 series tag chips, the Impinj R700 advances RAIN RFID performance at dock doors, conveyors, and store exits.



Key Features of the Impinj R700 RAIN RFID reader

- **Industry-Leading Sensitivity:** Empowers reading tags farther and faster, and future-proofing of IoT solutions
- **Powerful Edge Processing:** Enables intelligent on-reader RAIN tag-processing algorithms
- **Secure, Upgradable Linux OS:** Delivers enterprise-grade security and reliability, and the flexibility to customize with on-reader applications
- **Simple IoT Device Interface:** Easily connects IoT applications to configure and control devices, and to consume RAIN data, with native support for MQTT
- **Optimized Design for Inventory:** Increases read rate and improves read zone control at lower transmit power
- **Rich Peripheral and Accessory Support:** Provides versatility with support for USB flash drives, Wi-Fi adapters, and up to 32 antennas via optional antenna hub



Technical Description

Functionality & Operation

Antennas, Antenna inputs	4 mono-static ports
RFID transponder protocols	EPC Class 1 Gen2, ISO 18000-63
Connectors	TNC Male
Frequency	UHF: 865 - 868 MHz (EU), UHF: 915 - 921 MHz (EU)
CPU Type	Dual Core 1,0 GHz ARM
Memory	1GB Flash ROM
Data memory	1GB RAM
Expansion slot	USB Flash disk
Communication interface	Ethernet, GPIO, USB, micro USB
Indicators	LED
Maximal transmit power	33dBm
Operating system	Linux

Optical

Scanning rate	1100 / sec
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Electrical

Power Source	PoE (Power Over Ethernet)
DC resistance	50ohm

Mechanical

Dimensions	Width: 21.4cm, Height: 3cm Length: 14.9cm
Color	black
Body housing	aluminium
Weight	0.96kg

Environment

Operating temperature	-20 to 50°C
Storage temperature	-20 to 70°C
Operating humidity (non-condensing)	5 to 95%
Ingress protection	IP50
Vibrations resistance	MIL-STD-810G

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