



Datasheet

# IMPINJ R700 SERIES RAIN RFID READERS

DATASHEET

## OVERVIEW

The Impinj R700 series of readers include the R700v1, R700v2, and R720 RAIN RFID readers. These readers are designed to support enterprise RAIN deployments that need industry-leading performance, enterprise-grade reliability and security, and support for next-gen RAIN tags. IoT developers can easily build and deploy customized solutions with developer-friendly tools, increased processing power, and increased on-reader memory.

This document constitutes the electrical and mechanical specifications pertaining to the Impinj R700 Series RAIN RFID readers. It contains a functional overview, mechanical characteristics, and electrical specifications. For technical support, visit the Impinj Support Portal at [support.impinj.com](https://support.impinj.com).

**Table 1: Impinj R700 Series Key Specifications**

SPECIFICATION	R700R1	R700R2	R720
<b>Physical Dimensions</b>	With mounting brackets 8.4 in. long x 7.4 in. wide x 1.2 in. deep (21.5 cm x 18.7 cm x 3.0 cm) Without brackets: 8.4 in. width x 5.9 in. depth x 1.2 in. height inch (21.4 x 14.9 x 3.0 cm)		
<b>Power Supply</b>	PoE (802.3af), PoE+ (802.3at) with LLDP for power negotiation	PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at) with LLDP for power negotiation
<b>Air Interface Protocol</b>	EPCglobal UHF Gen2 v2 / ISO 18000-63 RFID		
<b>Antenna Ports</b>	4, Monostatic (RP-TNC)		
<b>Frequency Range</b>	IPJ-R700-241 ETSI Reader 865 – 868 MHz, 915 – 921 MHz IPJ-R700-341 Global Reader: 902 – 928 MHz IPJ-R700-441 Japan Reader 916.7 to 920.9 MHz		IPJ-R720-243 ETSI Reader 865 – 868 MHz, 915 – 921 MHz IPJ-R720-343 Global Reader: 902 – 928 MHz IPJ-R720-443 Japan Reader: 916.7 to 920.9 MHz
<b>Transmit Power</b>	PoE+: 10 - 33 dBm max PoE: 10 - 30 dBm max	PoE+: 10 - 33 dBm max	PoE+: 10 - 33 dBm max PoE: 10 - 20 dBm max
<b>Typical Receive Sensitivity</b>	-93 dBm CISC 90% PSR		
<b>Processor</b>	Dual-Core 1 GHz ARM	ARM Cortex-A53 (64-bit)	Quad-Core 1.4 GHz ARM53
<b>CAP Space</b>	256 MB	768 MB	256 MB
<b>Memory</b>	1 GB Flash		
<b>RAM</b>	1 GB, DDR3L 800 MHz	1 GB, LPDDR4 1.6 GHz	1 GB, DDR3L 800 MHz
<b>Network Connectivity</b>	10/100/1000 BASE-T Ethernet		
<b>Device Connectivity</b>	3 USB Type-A, 1 micro USB		
<b>General Purpose I/O</b>	2 in / 3 out		

Figure 1: Impinj R700 Series Top View



Figure 2: Impinj R700 Series Bottom View



**Figure 3: Impinj R700 Series Front View**



**Figure 4: Impinj R700 Series Back View**



**Figure 5: Impinj R700 Series Left View**



**Figure 6: Impinj R700 Series Right View**



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# 1 INTRODUCTION

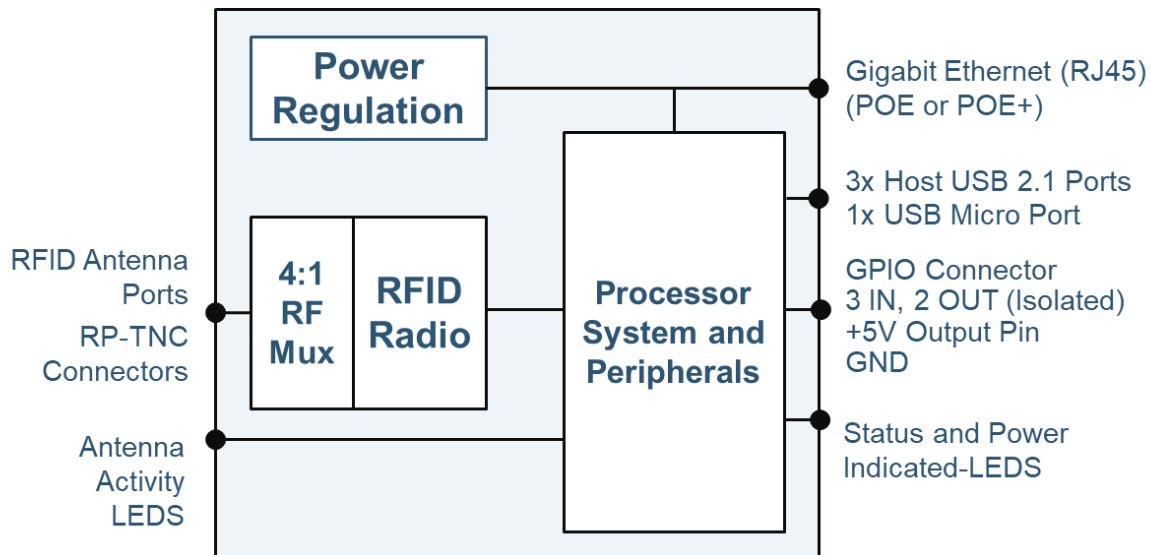
The Impinj R700 series are four-port RAIN RFID readers, compliant with the GS1 UHF Gen2v2 protocol which ISO/IEC standardizes as 18000-63. They also support Impinj Gen2X™, an enhancement to the RAIN standard that can improve inventory speed, increase read range, manage large tag populations, protect consumers, prevent label and item counterfeiting, and reduce overall solution cost. Impinj R700 Series are specifically designed to meet the increasing demands of next-generation IoT solutions and enterprise-grade RAIN deployments.

## 1.1 Features

- **Industry-leading sensitivity:** Empowers reading tags farther and faster, and future proofing of IoT solutions
- **Powerful edge processing:** Enables intelligent on-reader RAIN RFID 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

## 1.2 Block Diagram

Figure 7: Impinj R700 Series Block Diagram



## 2 SPECIFICATIONS

### 2.1 Mechanical

**Table 2: Impinj R700 Series Mechanical Specifications**

SPECIFICATION	DESCRIPTION
Physical Dimensions	With mounting brackets 8.4 in. long x 7.4 in. wide x 1.2 in. deep (21.5 cm x 18.7 cm x 3.0 cm) Without brackets: 8.4 in. width x 5.9 in. depth x 1.2 in. height inch (21.4 x 14.9 x 3.0 cm)
Mounting	<ul style="list-style-type: none"> <li>VESA 100 ×100 mm on bottom of the enclosure</li> <li>Two removable brackets compatible with Impinj Speedway mounting system</li> </ul>
Weight	2.12 lb., 0.96 kg
Housing Material	Die-cast Aluminum
Factory Reset Button	Restores reader to known factory state
LED Indicators	System status, inventory, firmware upgrade, antenna activity, network activity

### 2.2 Environmental

**Table 3: Impinj R700 Series Environmental Specifications**

SPECIFICATION	DESCRIPTION
Operating Temperature	-4° F to 131° F (-20° C to 55° C) @ 31.5 dBm Transmit Power (ETSI Lower Band max) -4° F to 122° F (-20° C to 50° C) @ 33 dBm Transmit Power (FCC and ETSI Upper Band max)
Storage Temperature	-4° F to 158° F (-20° C to 70° C)
Humidity	5% - 95% non-condensing
Sealing	Ingress Protection (IP) 50 rating
Shock and Vibration	MIL-STD-810G

## 2.3 RFID

**Table 4: Impinj R700 RFID Specifications**

SPECIFICATION	R700V1 / R700V2	R720
<b>Air Protocol</b>	EPCglobal UHF Class 1 Gen 2 / ISO 18000-63 RFID Impinj Gen2X™ protocol and application layer enhancements	
<b>Transmit Power</b>	10 – 31.5 dBm (PoE+, ETSI Lower Band) 10 – 33 dBm (PoE+, FCC / ETSI Upper Band)	10 – 20 dBm (PoE, All Models) 10 – 31.5 dBm (PoE+, ETSI Lower Band) 10 – 33 dBm (PoE+, FCC / ETSI Upper Band)
<b>Transmit Power Resolution</b>	0.25 dB	
<b>Transmit Power Accuracy</b>	0.5 dB	
<b>Frequency Range</b>	IPJ-R700-341 Global Reader: 902 – 928 MHz IPJ-R700-241 ETSI Reader 865 – 868 MHz, 915 – 921 MHz IPJ-R700-441 Japan Reader 916.7 to 920.9 MHz	IPJ-R720-343 Global Reader: 902 – 928 MHz IPJ-R720-243 ETSI Reader 865 – 868 MHz, 915 – 921 MHz IPJ-R720-443 Japan Reader 916.7 to 920.9 MHz
<b>Return Loss</b>	10 dB min	
<b>Read Rate</b>	Up to 1100 reads per second	
<b>Antenna Impedance</b>	50 ohms	
<b>Receive Sensitivity*</b>	Ideal: -94 dBm Typical: -93 dBm Challenging: -88 dBm	
<b>Gen 2 Reader Modes</b>	Static and Dynamic RF Modes various per region	

\*Data collected using CISC conducted sensitivity test, 90% PSR. Using RF mode FCC DRM M8 @ 30 dBm. Conditions described in Table 5:

### 2.3.1 Transmit Power

The user configures Impinj R700 Series transmit power, the conducted power available at the RF port on the reader.

#### 2.3.1.1 R700V1

For Impinj R700v1 reader model, the reader will limit the maximum transmit power to 30 dBm while configured to use PoE power. When configured to use PoE+ power, the reader may allow for a higher maximum transmit if the region allows for it. The Impinj R700 will only present valid output powers for the region it is configured to operate in. For additional information on how to properly set transmit power to comply with regulatory rules, refer to the Impinj R700 series Installation and Operations Guide. For additional information on the differences between PoE and PoE+ power, refer to section 2.4.1 of this datasheet.

#### 2.3.1.2 R700V2

For Impinj R700v2 reader model, the reader requires PoE+ for all operations and all transmit power levels, from 10 dBm to a maximum of 33 dBm, depending on regional regulations. Selecting the correct region of operation will limit transmit power options available to only those within the region's limit. For additional information on how to properly set transmit power to comply with regulatory rules, refer to the Impinj R700 series Installation and Operations Guide. For additional information on the differences between PoE and PoE+ power, refer to section 2.4.1 of this datasheet.

### 2.3.1.3 R720

For all Impinj R720 reader models, the reader will limit the maximum transmit power to 20 dBm while configured to use PoE power. When configured to use PoE+, the reader can transmit the full allowable transmit power range based on region. The Impinj R720 will only present valid output powers for the region it is configured to operate in. For additional information on how to properly set transmit power to comply with regulatory rules, refer to the Impinj R700 Series Installation and Operations Guide. For additional information on the differences between PoE and PoE+ power refer to section 2.4.1 of this datasheet.

### 2.3.2 Gen2 and Gen2X™ Reader Modes

The Impinj R700 series readers include support for two types of reader modes: static and dynamic. The number of modes varies per region and complies with regulatory agencies. All R700 Series readers have Gen2x reader modes available (identified as 5XXX in the reader mode listing). These reader modes seamlessly operate between Gen2 and Gen2X™ inventories for improved reader sensitivity and inventory speeds on Gen2X™ enabled tags. For additional detail on Reader Modes visit the Impinj Support Portal.

### 2.3.3 Read Rate

The Impinj R700 series readers read rate varies depending on the reader configuration and number of tags in the field of view. The maximum read rate can only be achieved while using reader mode 0 in an FCC-like region.

### 2.3.4 Receive Sensitivity

Impinj follows the RAIN Alliance and ISO/IEC 18046-2:2020 recommended receive sensitivity methodology. This methodology uses the CISC Xplorer and its tag emulator for conducted receive sensitivity testing. The benchmark used is based on a Packet Success Rate (PSR) of 90%. Impinj has created three conditions using this methodology to showcase a gradation of performance based on adjacent equipment selection. The conditions are described in Table 5.

**Table 5: Receive Sensitivity Conditions**

CONDITION	TIME DELAY (ns)	RETURN LOSS (dB)
Ideal	4.5	22+
Typical	6.0	15
Challenging	38.2	12

The receive sensitivity of the Impinj R700 series readers vary depending on the RF mode chosen to perform Inventory. Applications that require the lowest (i.e., best) receive sensitivity should choose Dense Reader M8 mode. To learn more about reader modes and receive sensitivity, visit the [Impinj Support Portal](#).

## 2.4 Connectivity

**Table 6: Impinj R700 Series Connectivity Specifications**

SPECIFICATION	R700V1 / R720	R700V2
<b>Network</b>	10/100/1000 Base-T Ethernet (RJ45)	
<b>Antenna Ports</b>	4 monostatic ports (RP-TNC)	
<b>USB</b>	3 Type A host, 1 micro device	
<b>Power</b>	PoE (802.3af), PoE+ (802.3at) with LLDP for power negotiation	PoE+ (802.at)
<b>General Purpose I/O</b>	2 in, 3 out optically isolated	
<b>General Purpose I/O Header</b>	Phoenix Contact 9 pin 3.81 mm pitch	

### 2.4.1 Power

The Impinj R700v1 and R720 readers are powered exclusively through Power over Ethernet (PoE) or PoE+ via the ethernet port. Impinj R700v1 is limited to 30 dBm transmit power in PoE and the R720 is limited to 20 dBm transmit power in PoE. For applications where the reader is not connected to a PoE capable switch, users can apply a midspan injector to add inline power to a network connection via a power supply. By default, the Impinj R700v1 and R720 will attempt to negotiate power using Link Layer Discovery Protocol (LLDP). If the negotiation fails, the Impinj R700v1 and R720 will default on using PoE power.

The Impinj R700v2 readers are powered exclusively through PoE+ via the ethernet port. For applications where the reader is not connected to a PoE+ capable switch, users can apply a midspan injector to add inline power to a network connection via a power supply.

Impinj recommends PoE+ power when using the Impinj R700 series readers to source power to external USB devices or through the general-purpose outputs.

### 2.4.2 GPIO

The Impinj R700 series readers utilizes a Phoenix Contact 9 position 3.81 mm pitch header to expose the GPIO signals. To connect external signals, a matching terminal block must be installed. Pin 1 is located nearest the push-pin factory reset button.

**Table 7: Impinj R700 Series GPIO Pin Assignments**

PIN	ASSIGNMENT
1	+5V (500 mA max current)
2	Chassis GND
3	IN 0
4	IN 1
5	OUT 0
6	OUT 1
7	OUT 2
8	V MINUS
9	V PLUS

**Figure 8: Impinj R700 Series GPIO Pin Locations**



**Table 8: Impinj R700 Series GPIO Electrical Specifications**

SPECIFICATION	DESCRIPTION
V PLUS	5 – 30 V (reference to V MINUS)
Input Logic 0	0 - 0.8 V
Input Logic 1	3 – 30 V
Output Logic 0	0 – 0.5 V (reference to V MINUS)
Output Logic 1	V PLUS – 0.5 V
GPO Maximum Input Current	1.5 A Source or Sink
Isolation	Optical

## 2.5 Operating System

**Table 9: Impinj R700 Series Operating System Specifications**

SPECIFICATION	R700R1	R700R2	R720
<b>Processor</b>	Dual-Core 1GHz Cortex A7	Dual-Core 1 GHz Cortex A53	Quad-core 1.4 GHz ARM53
<b>CAP Space</b>	256 MB	768 MB	256 MB
<b>Flash</b>	1 GB		
<b>RAM</b>	1 GB, DDR3L 800 MHz	1GB, LPDDR4 1.6 GHz	1 GB, DDR3L 800 MHz
<b>Linux</b>	6.6 kernel (32-bit)	6.6 kernel (64-bit)	5.10 kernel (32-bit)
<b>Firmware</b>	Impinj Octane Firmware		
<b>Firmware Upgrade</b>	Web-based and remote capable		
<b>Network Stack</b>	IPv4, IPv6		
<b>Network Services</b>	SSH, HTTP, HTTPS, NTP, DHCP, SFTP, mDNS		
<b>Network Security</b>	802.1x port security		
<b>Network Management</b>	Event logs with syslog forwarding		

## 3 DEVELOPMENT LIBRARIES

**Table 10: Impinj R700 Series Supported Development Libraries**

API	DESCRIPTION
<b>Reader configuration REST API</b>	OpenAPI compatible RESTful configuration API with support for over 80 languages.
<b>Impinj Octane SDK</b>	Host-based applications (.NET, Java)
<b>Impinj Octane LLRP toolkit</b>	Host-based applications (.NET, Java, C, C++) compatible with LLRP 1.0.1 with Impinj Extensions
<b>Impinj R700 embedded toolkit</b>	Compiler (C, C++) and precompiled Octane LLRP libraries to develop on-reader applications

## 4 REGULATORY SPECIFICATIONS

Table 11: Impinj R700 Series Regulatory Specifications

SPECIFICATION	R700V1 / R700V2	R720
RF	USA and Canada <ul style="list-style-type: none"> <li>Federal Communications Commission (FCC) Part 15.247 and 15.249</li> <li>Professional Installation required under FCC rules</li> </ul> ETSI <ul style="list-style-type: none"> <li>EN 302 208 v3.3.0</li> <li>EN 301 489-3 v2.2.1</li> <li>EN 300 489-1 v2.2.0</li> </ul> Japan <ul style="list-style-type: none"> <li>ARIB STD-T106</li> </ul>	USA and Canada <ul style="list-style-type: none"> <li>Federal Communications Commission (FCC) Part 15.247 and 15.249</li> <li>Professional Installation required under FCC rules</li> </ul> ETSI <ul style="list-style-type: none"> <li>EN 302 208 v3.3.0</li> <li>EN 301 489-3 v2.2.1</li> <li>EN 300 489-1 v2.2.0</li> </ul> Japan <ul style="list-style-type: none"> <li>ARIB STD-T106</li> </ul>
Safety	USA and Canada <ul style="list-style-type: none"> <li>UL listed</li> </ul> EU <ul style="list-style-type: none"> <li>CE mark</li> </ul>	
Hazardous Substances	RoHS3 2015/863 compliant	

The latest regional certifications are available on the Impinj Support Portal.

## 5 ORDERING INFORMATION

### 5.1 Reader

**Table 12: Impinj R700v1 Part Number Information**

PART NUMBER	DESCRIPTION
IPJ-R700-241	Impinj R700 RAIN RFID reader, 4-Port, ETSI
IPJ-R700-341	Impinj R700 RAIN RFID reader, 4-Port, FGX
IPJ-R700-441	Impinj R700 RAIN RFID reader, 4-Port, Japan

**Table 13: Impinj R700v2 Part Number Information**

PART NUMBER	DESCRIPTION
IPJ-R700-241-B	Impinj R700 RAIN RFID reader, 4-Port, ETSI
IPJ-R700-341-B	Impinj R700 RAIN RFID reader, 4-Port, FGX
IPJ-R700-441-B	Impinj R700 RAIN RFID reader, 4-Port, Japan

**Table 14: Impinj R720 Part Number Information**

PART NUMBER	DESCRIPTION
IPJ-R720-243	Impinj R720 RAIN RFID reader, 4-Port, ETSI
IPJ-R720-343	Impinj R720 RAIN RFID reader, 4-Port, FGX
IPJ-R720-443	Impinj R720 RAIN RFID reader, 4-Port, Japan

## 5.2 Accessories and Warranties

**Table 15: Impinj R700 Series Hardware Accessories and Services**

PART NUMBER	NAME	DESCRIPTION																												
IPJ-A6010	Impinj R700 antenna hub	The Impinj R700 antenna hub expands the number of antennas that can connect to an Impinj R700 reader by allowing eight antennas to connect to one antenna port for a total of 32 antennas per reader. The R700 antenna hub is compatible with all R700 Series Readers.																												
IPJ-A2010	PoE+ Midspan Injector	PoE+ midspan power injector (without AC power cord)																												
IPJ-A2041-xxx	AC Power Cord for PoE+ injector	<table border="0"> <tr> <td>ARG</td> <td>Argentina</td> <td>RSA</td> <td>South Africa</td> </tr> <tr> <td>AUS</td> <td>Australia, New Zealand</td> <td>UK1</td> <td>UK, Singapore</td> </tr> <tr> <td>BRA</td> <td>Brazil</td> <td></td> <td>Malaysia, Hong Kong</td> </tr> <tr> <td>CHN</td> <td>China</td> <td>USA</td> <td>USA</td> </tr> <tr> <td>EU1</td> <td>Europe</td> <td></td> <td></td> </tr> <tr> <td>IND</td> <td>India</td> <td></td> <td></td> </tr> <tr> <td>JPN</td> <td>Japan</td> <td></td> <td></td> </tr> </table>	ARG	Argentina	RSA	South Africa	AUS	Australia, New Zealand	UK1	UK, Singapore	BRA	Brazil		Malaysia, Hong Kong	CHN	China	USA	USA	EU1	Europe			IND	India			JPN	Japan		
ARG	Argentina	RSA	South Africa																											
AUS	Australia, New Zealand	UK1	UK, Singapore																											
BRA	Brazil		Malaysia, Hong Kong																											
CHN	China	USA	USA																											
EU1	Europe																													
IND	India																													
JPN	Japan																													
IPJ-C205x	Warranty extension	<table border="0"> <tr> <td>1</td> <td>1-year</td> </tr> <tr> <td>2</td> <td>2-year</td> </tr> <tr> <td>3</td> <td>3-year</td> </tr> </table>	1	1-year	2	2-year	3	3-year																						
1	1-year																													
2	2-year																													
3	3-year																													
IPJ-C2001	Firmware Updates	Firmware Updates (1-year)																												

## 5.3 Antennas and Antenna Cables

**Table 16: Antenna and Antenna Cable Ordering Information**

PART NUMBER	PART NAME	DESCRIPTION
IPJ-A0303-000	Impinj Mini-Guardrail Antenna	Impinj Mini-Guardrail antennas are ideal for fixed spaces that need exceptional control in a small zone. The antenna is unobtrusive and optimal for monitoring items within cabinets or other small enclosures. Provides broadband support for optimal performance globally.
IPJ-A0404-000	Impinj Matchbox Antenna	The Impinj MatchBox antenna is ideal for tight-proximity spaces that need exceptional control in a small zone. The antenna is unobtrusive and can monitor items within cabinets or other small enclosures. Provides bi-directional, short-range coverage and broadband support for optimal performance globally.
IPJ-A300x-000	Antenna Cable 2 2 meters 4 4 meters 8 8 meters	RG58, SMA male to R-TNC male
IPJ-A311x-000	Antenna Cable 2 2.1 meters 4 4.6 meters	Low Loss/High Flex, SMA male to R-TNC male
IPJ-A312x-000	Antenna Cable 2 2.1 meters 4 4.6 meters	Low Loss/High Flex, SMA male to SMA male

## 6 IMPINJ FIXED READER COMPARISON

Table 17: Impinj Fixed Reader Comparison

FEATURE	R700V1	R700V2	R720	R420	R220
Antenna Ports	4	4	4	4	2
Read Zones (max)	32	32	32	32	16
Read Rate (max per-second)	1100	1100	1100	1100	200
Transmit Power (max, dBm)	33.0	33.0	33.0	32.5	32.5
Receive Sensitivity* (Typical, dBm)	-93	-93	-93	-84	-84
Processor Speed	1 GHz (dual core)	1 GHz (dual core)	1.4 GHz (quad core)	400 MHz (single core)	400 MHz (single core)
Random Access Memory (MB)	1024	1024	1024	256	256
Custom Application Partition (MB)	256	768	256	32	32
Impinj IoT device interface	Yes	Yes	Yes	No	No
USB Peripheral Slots	3	3	3	1	1
GPIO Connector	Integrated	Integrated	Integrated	Accessory	Accessory
Ethernet Network Speed	10/100/1000	10/100/1000	10/100/1000	10/100	10/100
Power Over Ethernet Support	PoE PoE+	PoE+	PoE+ (PoE with reduced Tx Power)	PoE PoE+ EU2 model	PoE

\*Data collected using CISC conducted sensitivity test, 90% PSR. Using RF mode FCC DRM M8 @ 30 dBm. Ideal condition; 6.0ns time delay and 15dB return loss

## 7 ADDITIONAL USER DOCUMENTATION

The following table lists documents that may be helpful in operating the Impinj R700 Series Readers. These documents can be found on the Impinj Support Portal at [Impinj R700 Reader Documents](#).

**Table 18: Impinj R700 Series User Documentation**

DOCUMENT	DESCRIPTION
<b>Impinj R700 Series Quick Start Guide</b>	Simple guide to begin using Impinj R700 Series readers
<b>Impinj R700 Series Installation and Operations Guide</b>	Detailed instructions for installing, connecting, configuring, operating, upgrading, and troubleshooting the Impinj R700 Series Readers
<b>RShell Reference Manual</b>	Guide to using the Reader Shell (RShell) command line interface to configure, maintain, and query the status of Impinj RAIN RFID readers
<b>Impinj Octane LLRP Guide</b>	Describes the LLRP capabilities supported by Impinj RAIN RFID readers, which includes Impinj custom LLRP extensions
<b>Impinj R700 Series Embedded Development Quick Start Guide</b>	Guide to begin developing custom on-reader applications
<b>Impinj R700 Series Firmware Release Notes</b>	Details up to date features and known issues

## 8 CHANGE LOG

### 8.1 June 2020

- Updated to include Impinj R700 ETSI reader model information
- Updated to reflect features of Impinj R700 firmware version 7.1
- Minor formatting changes

### 8.2 October 2020

- Updated to include Impinj R700 FGX reader model information
- Removed Impinj R700 FCC reader model information
- Updated to reflect features of Impinj R700 firmware version 7.3
- Minor formatting changes

### 8.3 February 2021

- Updated to include Impinj R700 Japan reader model information
- Updated Accessory table to include Impinj R700 antenna hub and Impinj R700 water-resistant case
- Updated to reflect features of Impinj R700 firmware version 7.4
- Updated specification table to indicate Impinj Speedway R120 End-of-Life status
- Minor formatting changes

### 8.4 November 2023

- Updated to include R720 reader model information
- Updated receive sensitivity values to reflect new methodology
- Removed R120 reader model information
- Removed end-of-life accessories
- Minor formatting changes

### 8.5 July 2025

- Updated Accessory table to remove Impinj R700 water-resistant case as this product has reached End-of-Life status.

### 8.6 December 2025

- Updated to include Impinj R700v2 reader model information.

### 8.7 April 2026

- Updated operating temperature specifications to reflect additional operating modes
- Updated wording for GPIO electrical specifications
- Updated to reflect features of Impinj R700 firmware version 10.3

## 9 NOTICES

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