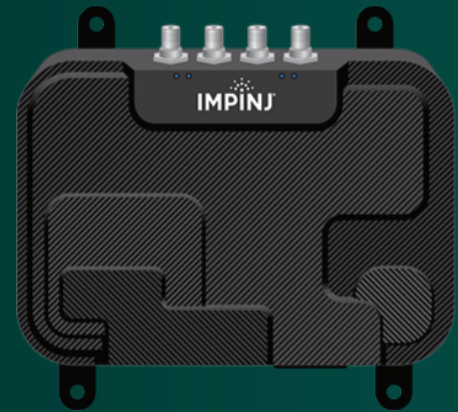


RAIN | UHF - Stationary Reader **Impinj - R700 / R720**

- EPCglobal UHF Gen2v2 / ISO 18000-63 RAIN RFID
- Up to 1100 tags-per-second read rate
- Linux OS with enterprise-grade security
- PoE / PoE+ power with LLDP negotiation
- Durable die-cast aluminum housing with IP50 protection



RAIN | UHF - Stationary Reader High-Density Inventory Engine

The Impinj R700 Series sets a new benchmark for enterprise RAIN RFID performance. Engineered for demanding, high-density environments, it delivers exceptional read sensitivity and fast, accurate tag acquisition—perfect for applications such as inventory management, dock-door visibility, and real-time supply-chain automation. Its advanced RF design ensures reliable long-range coverage and strong performance even in challenging, interference-heavy conditions.

Built on a secure, enterprise-grade Linux platform, the R700 Series offers robust processing power, expanded memory, and native support for modern IoT protocols like MQTT. Combined with gigabit Ethernet, PoE+ power support, and flexible USB connectivity, it enables seamless integration with cloud platforms, edge computing solutions, and a wide range of peripherals—including the Impinj Antenna Hub for up to 32 read zones.

With comprehensive developer tools, including a REST API, Octane SDK, and on-reader application environment, the Impinj R700 Series empowers organizations to build scalable, intelligent RFID solutions faster than ever. From industrial automation to retail operations, it delivers the performance, scalability, and reliability needed to transform operational data into real-time business insights.

Common Applications

- Inventory & Stock Management
- Supply Chain & Logistics Tracking
- Asset Tracking & Equipment Management
- Smart Manufacturing & Automation
- Access Control & Secure Zones



TECHNICAL SPECIFICATIONS

	R700	R720
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)	
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	
Power Supply	PoE (802.3af), PoE+ (802.3at) with LLDP for power negotiation	
Air Interface Protocol	EPCglobal UHF Gen2 v2 / ISO 18000-63 RFID	
Antenna Ports	4, Monostatic (RP-TNC)	
Frequency Range	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
Transmit Power	PoE+: 10 - 33 dBm max PoE: 10 - 30 dBm max	PoE+: 10 - 33 dBm max PoE: 10 - 20 dBm max
Typical Receive Sensitivity	-93 dBm CISC 90% PSR	
Processor	Dual-Core 1 GHz ARM processor	Quad-Core 1.4 GHz ARM53 Processor
Memory	1 GB Flash, 1 GB RAM	
Network Connectivity	10/100/1000 BASE-T Ethernet	
Device Connectivity	3 USB Type-A, 1 micro USB	
General Purpose I/O	2 in / 3 out	
Operating Temperature	-4° F to 122°F (-20°C to 50°C)	
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	