Technology Solutions for Retail



# R1

## Desktop RFID Reader

High-performance reader/writer supporting the latest Impinj Gen2X technology. It offers both HF and UHF reading capabilities and is compatible with multiple protocol standards such as ISO18000-6C, ISO14443 A/B and ISO15693.

Thanks to its excellent HF and UHF performance, the R1 reads UHF tags at high speed while maintaining a high recognition rate. It is also easy to deploy and operate via USB connection to a PC, with no drivers required.

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# Features

| Physical Characteristics | |
|---|---|
| Dimensions | 117 x 117 x 25 mm / 4.6 x 4.6 x 0.98 in |
| Weight | 170 g / 6.0 oz |
| Interfaces | USB Type-C |
| Cable | 1.2 m |
| Notification | LED indicator, buzzer |

| Power | |
|---|---|
| Input voltage | DC 3.5 – 5.25 V |
| UHF | 5W @ 25 dBm |
| HF | 2W |
| Standby | 0.4 W |







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# Features

| | |
|---|---|
| **Operating Environment** | |
| Operating temperature | -25°C to 65°C (-13°F to 149°F) |
| Storage temperature | -40°C to 85°C (-40°F to 185°F) |
| Humidity | 10% – 95% |
| **RFID UHF** | |
| Engine | Based on Impinj E series chips |
| Standard | Compatible with Impinj Gen2X |
| Protocol | ISO18000-6C / EPC C1G2 |
| Output power | Adjustable from +1 dBm to +25 dBm |
| Accuracy | ±1 dB |
| Antenna | Circular polarized antenna |
| Frequency | 865–868 MHz / 920–925 MHz / 902–928 MHz |
| Read/write range | Up to 15 cm |
| **PSAM** | |
| Protocols | ISO/IEC 14443AISO/IEC 14443BISO/IEC 15693 ISO/IEC 18000-3 mode 3 / EPC Class-1 HF JIS X 6319-4 |
| Frequency | 13.56 MHz |
| Read range | Up to 5 cm |

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