

**CHAINWAY®**



# R1

## RFID Reader/Writer

Chainway R1 is a high-performance reader/writer supporting the latest Impinj Gen2X. It features both HF and UHF reading capabilities and supports a variety of protocol standards such as ISO18000-6C, ISO14443 A/B, and ISO15693. With excellent HF and UHF reading performance, R1 can achieve UHF tag reading by rapid velocity and maintain a high recognition rate simultaneously. Besides, it is easy to deploy and operate by connecting its USB port to a PC without driver installation. All these make R1 can be widely used in various RFID applications such as logistics, access control, anti-counterfeiting and production process control.

## Specification

Physical Characteristics		UHF RFID	
Dimensions	117 x 117 x 25mm / 4.6 x 4.6 x 0.98in	Engine	Based on Impinj E Series chips
Weight	170g / 6.0oz.	Impinj Gen2X	Supported
Interfaces	USB Type-C	Protocol	ISO18000-6C / EPC C1G2
Cable	1.2m	Output Power	+1dBm to +25dBm adjustable Accuracy: +/- 1dB
Notification	LED indicator, buzzer	Antenna	Circular Polarized Antenna
Power		Frequency	865-868MHz / 920-925MHz / 902-928MHz
Input Voltage	DC3.5 - 5.25V	R/W range	15cm
UHF	5W@25dBm	HF RFID	
HF	2W	Protocol	ISO / IEC 14443A ISO / IEC 14443B ISO / IEC 15693 ISO / IEC 18000-3 mode 3/EPC class-1 HF JIS X 6319-4
Standby	0.4W	Frequency	13.56MHz
User Environment		R/W Range	5cm
Operating Temp.	-13°F to 149°F / -25°C to 65°C	PSAM	
Storage Temp.	-40°F to 185°F / -40°C to 85°C	Slot	2 slots
Humidity	10% - 95%	Protocol	ISO7816 T = 0, T = 1



Notice: Product specifications are subject to change without prior notice. / Model: R1 / Update Date: 2025-09-15

**CHAINWAY®**

**Osiris Technical Systems (Pty) Ltd. - Authorised Chainway Distributor**

Address: 1213 Park St, Hatfield, Pretoria, 0083, South Africa

Tel: +27 87 093 2700 | Email: sales@osiris.co.za | Web: <http://www.osiris.co.za>