

R1

Compact dual-frequency UHF and HF reader/writer

Overview

A palm-sized desktop reader that handles both UHF and 13.56 MHz HF, so one unit covers Gen2 product tags and ISO 14443/15693 cards. At 15 cm read range it is deliberately close-coupled, which suits encoding desks and access points where precision matters more than distance.



Technical specifications

Form factor	Desktop reader/writer
RFID module	Impinj Gen2X (E-series based)
Frequency	UHF 865-868 / 902-928 / 920-925 MHz; HF 13.56 MHz
Air interface	UHF: ISO 18000-6C / EPC C1 Gen2. HF: ISO/IEC 14443A/B, ISO/IEC 15693
Output power	UHF +5 to +25 dBm adjustable; HF 2 W
Read range	15 cm typical
Antenna	Circular polarised UHF; PSAM and HF support
Interfaces	USB Type-C (power and data)
Power	DC 3.5-5.25 V over USB
Operating temperature	-25 °C to 65 °C
Dimensions	117 x 117 x 25 mm
Weight	170 g

Common uses

- Access control and attendance
- Logistics tracking
- Product authentication
- Manufacturing process monitoring
- Card and tag encoding

Use case: Access and attendance desk

