



The Discovery Mobile UHF RFID wearable reader is a wearable device suitable for outdoor applications in dirty environments, due to its **IP67 protection rating**. This RFID wristband is **ergonomic and particularly suitable for door-to-door waste collection**. It reads the RFID tag affixed on the bag or bin, **records the deliveries per user, and transfers the data to the cloud** via middleware at a user-defined frequency,

guaranteeing data security, which can also be certified via **blockchain**.

Easily integrated into third-party cloud applications, it improves the efficiency of door-to-door pay-as-you-throw waste collection with the **highly sensitive** RFID reader, which allow passive UHF tags to be read and written at a distance of up to 50 cm, and a system of **five readers installed on a single electronics board** (GPRS,

wireless charging, RFID UHF, BLE and GPS). **An LED and buzzer** complete the interface. Moreover, Discovery Mobile UHF measures 95 mm x 60 mm x 20 mm, **reads up to 15000 memorised tags** and has a battery life of **over 12 hours for continuous use**.

MARKETS

Easy to use, it is ideal for on-time waste collection and picking applications.

RFID READER DISCOVERY MOBILE



Frequency: Europe 865.7–867.5/USA 902.75–927.25

Technical Features

Standard Protocol	ISO 18000 – 6 A/B/C, EPC Class 1 Gen 2
Connection	GSM/ GPRS
RF Power	100mW (20dBm) [0dBm ÷ -19dBm [Software-configurable attenuation]]
Internal Memory	Up to a 15000 tag storable
Antenna type	Integrated circular polarized
Sensibility of antenna	-90dBm
Reading distance	Up to 50 cm

Physical Features

IP Grade	67
Dimensions	95 x 60 x 20 mm
Weight	156 g
External case	Polyurethane and resin in the back
Power supply	Wireless charging according to standards
Charging mode	2000 mAh (over 12h when in continuous reading mode, up to 15,000 readings)
Operating temperature	-20° C ~ +55° C

CE certification in accordance with ETSI EN 302 208.