

# Hard Tag



## High-Performance RFID Tag for Metal Asset Tracking

The RFID tag is a compact, durable passive tag designed for reliable asset tracking on metallic surfaces. Built using robust FR-4 PCB material and equipped with copper and gold antennas, it ensures strong performance and easy installation in various environments.

With versatile personalization options including silk-screen printing, laser engraving, and UV coding, the tag supports easy identification and tracking. Its small dimensions, lightweight construction, and IP65 rating make it suitable for both indoor and outdoor applications.

Ideal for asset management, logistics, transportation, data centers, construction, and manufacturing industries, this RFID tag offers up to 4 meters read distance, ensuring precise asset visibility and management efficiency.

## Overview

---

### Frequency Band

UHF 920 - 923 Mhz (ID)

---

### Chip

Impinj Monza M781

---

### Material

FR-4 (PCB Substrate)

---

### Tag Dimension

50 x 10 x 3.5 mm

---

### Compliance

RoHS, CE, and REACH

---

### Industry Segments

Transportation  
Construction  
Manufacture  
Data Centers & IT  
Logistics & Warehousing  
Aerospace & Automotive

---

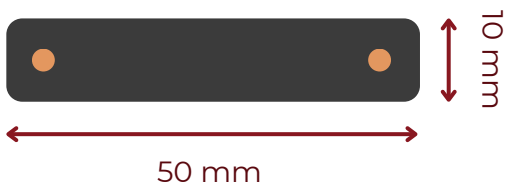
### Applications

Asset Tracking and Management  
Equipment Identification and Monitoring  
Tool and Instrument Inventory Control  
Pallet and Container Tracking  
Vehicle and Fleet Management  
Large Equipment Lifecycle Management

## Technical Features



Chip	Impinj Monza M781
EPC & User Memory	128 bits & 32 bits
TID Memory	96 bits (48-bit unique serial number included)
Frequency Band	920 - 923 MHz (ID)
Dimension	50 x 10 x 3.5 mm
Material	FR-4 (PCB Substrate)
Personalization Options	Silk screen printing, laser engraving, UV coding
Read Cycle & Lifetime	Up to 100,000 Programming Cycle & 20 Years of Data Retention
Installation Method	Adhesive or screws
Operating Mode	Passive
Storage Temperature	-20°C to +150°C
Operating Temperature	-20°C to +80°C
Waterproof Rating	IP65 (suitable water resistance)

## Product Overview



### Contact Information

[www.tudi.id/contact-us](http://www.tudi.id/contact-us)  
+62 877-3201-8345

Connect with us on  

© 2025 TUDI. All rights reserved. Ruko BE01A, Jl. Citra Dua Extension No.5, Pegadungan, Kec. Kalideres, Kota Jakarta Barat, Jakarta 11830, Indonesia. Third-party trademarks and/or trade names used herein are the property of their respective owner(s) and appear solely for identification purposes.