

QuicTag

Silicone MIFARE® Wristband



TECHNICAL SPECIFICATIONS

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1.0 Introduction



QuicTag is a RFID (Radio Frequency Identification) silicone wristband with two different sizes for adults and kids. The ergonomic design of QuicTag makes it a comfortable, virtually imperceptible device to wear regardless of conditions. In addition, thanks to its waterproof and luminous specialties, it is ideal for applications like membership identification for gym club, payment for water activities, and so forth.

RFID market is growing rapidly and exponentially. Nowadays, the RFID technology is being adopted in a wide range of applications and usually regarded as an alternative to barcode or other optical identification technology. Even giant retailer, like Wal-Mart, is undergoing an electronic product code RFID implementation. Without doubt, this technology has already gained maturity in terms of its level of sophistication and coverage in the market.

With the inevitability of RFID, it is time to seize upon this technology, and learn how close this identification technology is to fulfilling its immense promise.



2.0 Features

- Built-in 1K bytes MIFARE® chip
 - 1 Kbyte EEPROM (768 Byte free available)
 - Unique serial number (4 Byte)
 - 16 securely separated sectors supporting multi-application
 - Each sector consists 4 blocks with a length of 16 Byte
 - 2 x 48 bit keys per sector for key hierarchy
 - Access conditions free configurable based on 2 level key hierarchy
 - Number of single write operations: 100.000
 - Data retention: 10 years
- Conform to ISO 14443A standard
- Material: Silicone
- Waterproof
- Luminous (White version only)

3.0 Benefits

Comfort first and foremost

- Imperceptible weight
- Made of Silicone

Built to last

- Excellent resistance to oxygen, ozone and sunlight

Safe to use

- Acid-proof and Alkali-proof
- Anti-adhesive properties
- Low chemical reactivity
- Low toxicity

Excellent performance

- Operating range (up to 15mm) fits for radio frequency identification

4.0 Typical Applications

- Loyalty program: gym club, golf club, health club
- Entrance ticket applications: skiing, swimming pool, stadium, concert, football match, night pubs
- Time tracking: sports competitions like Marathon
- Electronic payment: pay fares in mass transit systems, retail stores, fast food chains and gas stations, water activities



5.0 Technical Specification

Embedded Mifare® Module

IC Type..... MF1 S50
 Interface..... ISO14443A
 Protocol & Crypto..... MIFARE® Classic
 Memory..... 1 Kbytes EEPROM
 Operating Frequency 13.56 MHz, with read/write capability

Operating Distance

Up to 15mm

Operating Temperature

-40°C to 100°C

Storage Temperature

-40°C to 120°C

Material

Silicone

Dimension

202mm x 17.5mm (180mm x 17.5mm upon request)

Color Options

White (luminous)/red/ black/ yellow/ green/ blue/ red/purple

Weight

15g