RFT200 433MHz Badge Tag

User Manual

Revision 02

User Manual

Revision	Date	Description
00	2009.1.15	Preliminary draft
01	2009.3.19	
02	2009.8.17	

Copyright

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

FCC Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harm ful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications
Any changes or modification not expressly approved by the party responsible could void the user's authority to operate the device.

Introduction

RFT200 badge tag is designed for people in the workplace. Two-button on the top can be used for check-in or access control environment. This tag is also convenient attaching to flat assets for monitoring or tracking.
This tag is suitable for use as an employee badge. By pressing the button, employees can remotely clock-in instead of waste time to lining up. Two-color LED can indicate the confirmation from the reader to ensure the clock-in is accomplished. By two-layer anti-collision technique it is suitable for high-density tag application with significant low collision rate.

Features

- User configurable transmission power
- User configurable transmission period
- Clock-in button
- Low-battery detection
- Long battery life
- Leading two-layer anti-collision technique
- Water-proof

Specification

Capabilities	
Characteristic	Two buttons (one for Clock-in application)
Anti-Collision	Two-layer anti-collision technique
Operation frequency	433.92 MHz
Signal Strength	-5dbm
Transmission Range	Max. 80m
Modulation	GFSK
Tag ID	999999 unique IDs

Physical Characteristics	
Length	3.74”
Width	2.28”
Height	0.24”
Weight	35g
Case	ABS

Environmental	
Operation Temperature	-20℃ to 70℃
Storage Temperature	-40℃ to 80℃

Electrical	
Power	CR2032 Coin Cell X 2(replaceable)
Battery Life	Typical 3 years (at 25℃)

Mechanicals

TOP View

Packet Format

Packet Format

Head	Reader ID	Group	Tag ID	Status	RSSI	End Code
$	000000~999999	01	000000~999999	(*)0~7	00~99	0x0d 0x0a

(*)Status: 0 to F means 0x00 to 0x0 7

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
0	0	0	0	0	0—Normal 1—Key2 pressed	0—Battery ok 1—Battery low	0—Normal 1—Key1 pressed

Implementation Notice

- Battery life will decline faster under low temperature environment due to the battery physical characteristic.