

## 2.4G Long Range Car Park / wireless access control Solution

This solution consists of a pair of devices that facilitate access into a carpark or wireless access control system .

A Transmitter unit is used to read the access control ID information from the Mifare MF1 or EM4100 RFID card and transmits the unique ID data to the receiver unit, which in turn communicates to a access control system.

**Application : Car Park access system / Long range wireless access system**

### Transmitter Unit

- Operating temperature: -20°C to + 70°C (-4°F to 158°F)
- Dimension: 115mm x 75mm x 25mm
- Built-in RFID reader & 2.4G transmitter
- Support Tag : 13.56Mhz (MiFare MF1 S50 , S70) or 125Khz (EM 4100 compatible)
- Operation : RFID with release Button active
- Long range Transmit frequency : 2.4GHz
- Transmit range: up to 8 metres
- Operating Voltage: 3Vdc (AA batteries) x 2
- Transmitter battery time : > 1 year
- Battery low LED (Red) / operation LED (Green)

### Receiver Unit

- Operating temperature: -20°C to + 70°C (-4°F to 158°F)
- Dimension: 120 x 105mm x 30mm
- Receiver frequency: 2.4GHz
- Data receive range: up to 8 metres
- Operating Voltage: 12Vdc, 100mA
- Interface : RS232 , RS485 or Wiegand 26bit

## Ordering Part No

Transmitter :

2.4G-EM-TX

**A B C**

Receiver :

2.4G-EM-RX-232

**A B C D**

### **A (Frequency range)**

2.4G wireless technology

### **B (RFID Tag Type)**

MF1 - support 13.56Mhz Mifare MF1 S50 or S70 tag

EM – support 125Khz EM4100 or compatible tag

### **C (Transmitter or receiver)**

TX – 2.4G long range Transmitter unit

RX – 2.4G long range Receiver unit

### **C – Receiver output Interface**

232 – RS232

485 – RS485

W26 – wiegand 26 bit

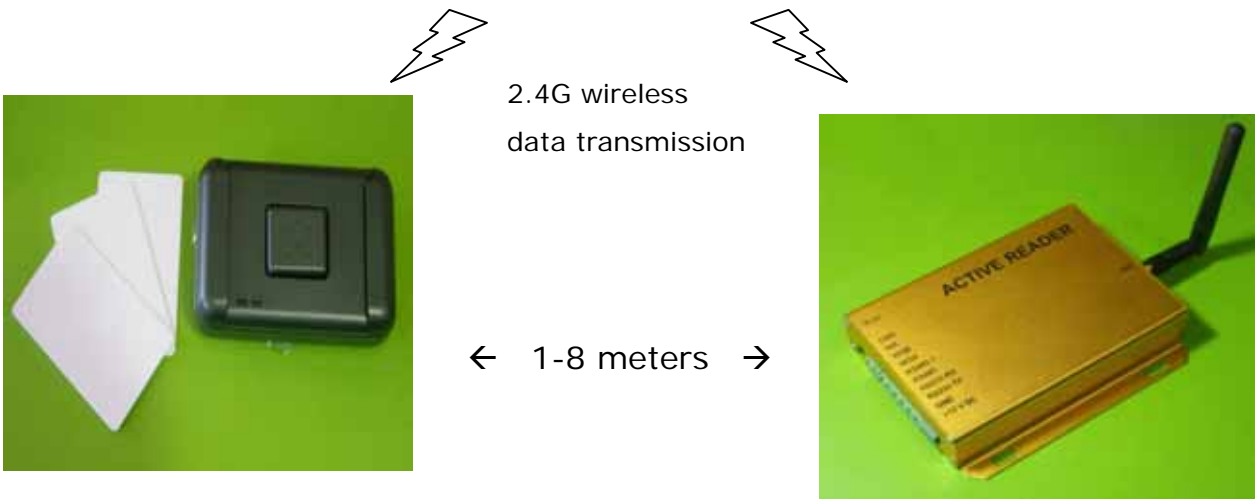
## Valid Part No

Tramsmmitter	Receiver (Support EM)	Receiver (Support MF1)
2.4G-MF1-TX	2.4G-EM-RX-232	2.4G-MF1-RX-232
2.4G-EM-TX	2.4G-EM-RX-485	2.4G-MF1-RX-485
	2.4G-EM-RX-W26	2.4G-MF1-RX-W26

## OPERATION DIAGRAM

### Operation Procedure

- [1] Put the RFID card on the Transmitter and press the button once , Green LED will flash if this is valid card
- [2] Then the card ID will be sent to the receiver through 2.4G wireless automatically
- [3] Finally card ID data will be output to the access control system through RS232/RS485/Wiegand from receiver

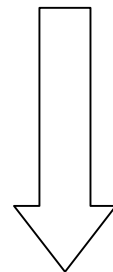


### The Transmitter includes:

- 3 pcs RFID cards

### INTERFACE

RS232 / RS485 / Wiegand 26



Access control system



Car Park Gate control

