

## 2.4G Radio frequency long-distance parking lot management system



### Product Description

The 2.4G Radio frequency long-distance system combines three active RFIDs with a card issuer and a directional long-distance card reader to meet more diversified needs and realize a convenient and efficient traffic environment. The card reader adopts a 32-bit ARM Cortex-M3 core microcontroller with excellent computing performance, with a maximum recognition speed of 2000 tags per second, allowing the card reader to achieve efficient operation speed. In addition, the card reader is equipped with a high-gain antenna to improve its anti-interference function, this speeds up the recognition of the card when cars are passing through. Nonetheless, the card machine has a wide recognition distance. This improves the success rate of card recognition and saves time.

### Main Feature

- Adopt high-performance 32-bit ARM Cortex-M3 core microcontroller
- Using 18dBi high-gain antenna with fixed orientation, the signal is stable and anti-interference
- 120 meters long distance card reading, the identification is fast and accurate.
- With anti-reread function
- Label recognition speed 2000 tags/sec
- Label reading capability 1000 tags/sec
- Renewal buffer capacity 1000 tags
- Professional waterproof and dustproof materials

## Product Description

Card reader

Model

RFR-3480

Processing Unit

32-bit ARM Cortex-M3

Working Frequency

72 MHz

Reading Ability

1000 label/s

Buffer Capacity

1000 label (Anti-reread)

Card Reading Distance

A maximum of 120m

Voltage

12 VDC (7-12 VDC)

Current

≤ 100 mA

Communication Port

Wiegand 26bit 34bit 36bit 44bit  
RS485 RS232

Working Temperature

-40°C~ +85°C (Industrial grade)

Storage Temperature

-60°C~ +85°C

Working Humidity

10% ~ 90% RH

Weight

2.65Kg

Dimension

308 x 308 x 80mm

Floor Stand

RFR-1.3M 1300mm High (Optional)

Antenna

Wave Frequency Area

2.400-2.480GHz

Gain

18 dBi

Power Directivity

Level: 55° /Vertical: 45°

Polarization Mode

Vertical/Level

Standing Wave Ratio

≤ 1.5

Front-to-rear Ratio

≥ 24dB

Input Resistance

50Ω

Lightning Protection

DC ground

Wind Resistance

80m/s

Installation Method

LU Pole

Support Rod

φ30 - φ50

Material

Cover ABS

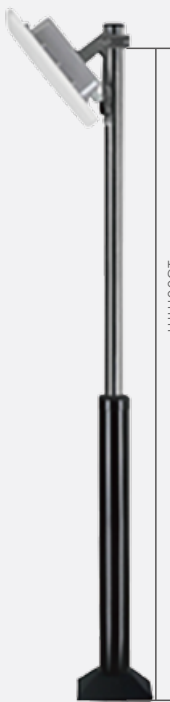
80mm



308mm

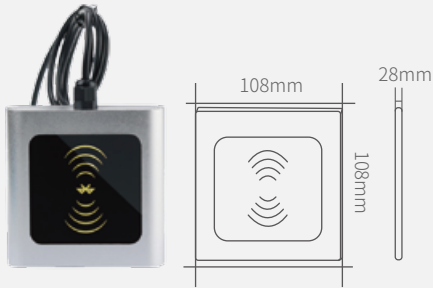
308mm

1300mm



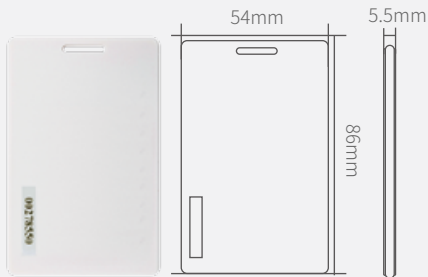
## Product Description

### Card issuer



Model	RFR-3475
Battery	5VDC (USB electrical supply)
Current	< 100mA
Communication Port	USB port (can customise different port) Weiken 26bit 34bit 36bit 44bit/ RS485 / RS232
Card Format	export multiple export format including 8H/10D/6H/8D/8D1/10D1
Format Setting	export format through card programming
Working Temperature	-40°C- +85°C (industrial level)
Wave Frequency Area	2400-2480GHz
Card Reading Distance	<20cm
Protective Level	IP65
Weight	250g
Dimension	108 x108 x 28mm

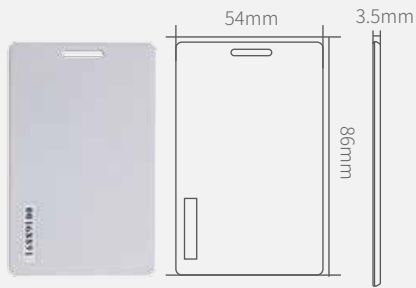
### Radio frequency card



Model	RFC-3455-W
Working Frequency	2.400-2.480GHz
Recognising Distance	A maximum of 120m
Distance Control	can switch between the two modes
Tag Type	read only, can work with ID or IC card
Emissive Frequency	0 dbm
Receptive Sensitivity	-85dbm
Static Current	< 1μA
Average Current	< 7μA
Battery	CR2032x 2 (changeable)
Functioning Duration	4-5 years
Working Temperature	-40°C- +85°C (industrial level)
Free Fall	Concrete surface (1m/3 times)
Weight	25g
Dimension	86 x 54x 5.5mm

## Product Description

### Radio frequency card



Model	RFC3425-W
Working Frequency	2.400-2.480GHz
Recognising Distance	A maximum of 120m
Distance Control	can switch between the two modes
Tag Type	read only, can work with ID or IC card
Emissive Frequency	0 dbm
Receptive Sensitivity	-85dbm
Static Current	< 1 $\mu$ A
Average Current	< 7 $\mu$ A
Battery	Ultra-thin Lithium Battery
Functioning Duration	5-6 years
Working Temperature	-40°C- +85°C (industrial level)
Free Fall	Concrete surface (1m/3 times)
Weight	24g
Dimension	86 x 54x 3.5mm

### Radio frequency card



Model	RFC3427-B
Working Frequency	2.400-2.480GHz
Recognising Distance	A maximum of 120m
Distance Control	can switch between the two modes
Tag Type	read only, can work with ID or IC card
Emissive Frequency	0 dbm
Receptive Sensitivity	-85dbm
Static Current	< 1 $\mu$ A
Average Current	< 7 $\mu$ A
Battery	CR2032 X1 (changeable)
Functioning Duration	2-3 years
Working Temperature	-40°C- +85°C (industrial level)
Free Fall	Concrete surface (1m/3 times)
Weight	10g
Dimension	54 x 27 x 8mm

\*All specifications may change without prior notification.