

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 Specification

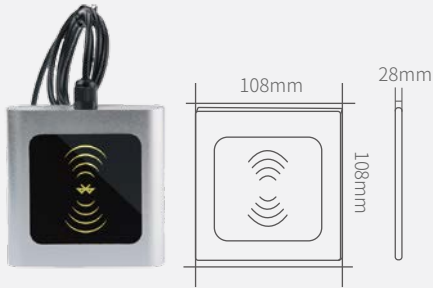
Card reader



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

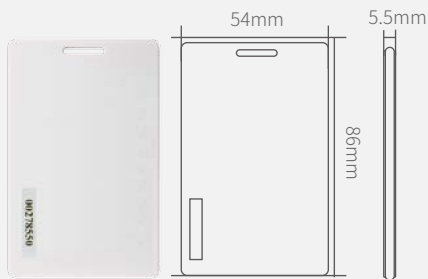
Product Specification

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	< 1 μ A
Average Current	< 7 μ A
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 Specification

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 μ A
Average Current	< 7 μ 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 μ A
Average Current	< 7 μ 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.