

## UHF RFID READER F6180



The F6180 device is a high-end integrated UHF RFID reader/writer product, designed to be equipped with our company's developed ultra-high frequency M2210/M2100/M2130/M7131 reader/writer modules and RFID antennas. The integrated device F6180 uses a multi tag algorithm for fast recognition. In response to customer needs, the label can be encrypted, and other readers will read it with garbled characters, increasing confidentiality. Among similar products, the performance is stable and the reading distance is far. The device integrates communication interfaces such as RS232 and 100Mbps Ethernet.

The ultra-high frequency integrated reader/writer has strong waterproof, dustproof, and anti-interference capabilities, meeting the design requirements of outdoor all-weather industrial grade products. Supports EPC global UHF Class 1 Gen 2/ISO 18000-6C protocol, featuring multiple interfaces, long recognition distance, fast speed, high accuracy, strong anti-interference ability, excellent protection performance, and easy installation and use.

NO	Model NO	Module
1	F6180-N	M2130
2	F6180-H	M2210
3	F6180-S	M7131
4	F6180-L	M2100

Note: X5 is defined as the type of RFID module, where N indicates the installation of M2130 module, H indicates the installation of M2210 module, and L indicates the installation of M2100 module.

## Product Technical Parameters

NO	NAME	Parameters	Note
1	Protocol standards	EPC global UHF Class 1 Gen 2 / ISO 18000-6C	F6180-N Taking M2130 module parameters as an example
2	Frequency	920-925 MHz / 902-928 MHz	
3	output power	+20dBm ~ +30dBm	
4	Output power accuracy	±1dBm	
5	Output power flatness	±0.2dBm	
6	receiver sensitivity	< -62dBm	
7	TAG RSSI	SUPPORT	
8	Environmental temperature monitoring	SUPPORT	
9	Antenna	8dBi circular polarization antenna	
10	RS232 communication	Adjustable communication speed, default communication speed 115200bps	
11	RS485 communication	Adjustable communication speed, default communication speed 115200bps	OPTION
12	Ethernet communication	RJ45 standard interface	
13	buzzer	YES	
14	RTC	YES	
15	Size	228mm×228mm×68mm	
16	Environmental requirements	1) Working environment temperature: -20 °C~55 °C 2) Storage environment temperature: -25 °C~55 °C 3) Humidity: 5%~95% (non condensing state)	
17	IP lever	IP67	
18	Input power supply	+9V ~ 26VDC (Standard value: +12VDC)	
19	Working current	≤1.5A (+12VDC)	
20	Standby current	≤120mA	
21	Radome material	ABS/ADC12 aluminum spray white	