DESKTOP RFID READER F5001

F5001 is a high-performance desktop UHF RFID reader/writer product, designed to be equipped with our company's ultra-high frequency M2100 reader/writer module and near-field antenna. F5001 adopts MINI USB interface communication and power supply, and can be optionally equipped with USB Keyboard/Wiegand/2-channel IO input/2-channel IO output functions (one out of four, with USB Keyboard as standard). The dual USB design facilitates customers to achieve various virtual keyboard outputs in different formats, with a reading distance of 0-0.8 meters.

F5001 adopts a plastic shell design, with a simple and beautiful appearance, compact and lightweight, sturdy and durable, fast reading and writing speed, and high accuracy, especially suitable for desktop applications.

Product advantages

- The receiving sensitivity can reach -62dBm, with high performance;
- Low power consumption and excellent performance;
- Provide a comprehensive software development kit (SDK) and interface that is easy to integrate with RFID software;
- Adopting integrated RF chips, the module has stable performance and is easy to carry and plug and play;
- Using carrier cancellation technology, the accuracy and range of tag reading are good;
- Enhanced noise suppression function for reliable data capture;
- Good anti-interference performance;
- Adopting a plastic box shell design, the appearance is compact, lightweight, and durable.

Product Technical Parameters

NO	Name	Parameter
1	working voltage	Powered by USB 5V
2	operation temperature	-20 ~ +60℃
3	Working humidity	≤95%（+25℃）
4	storage temperature	-25 ~ +65℃
5	Labelling Agreement	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
6	Working frequency	840 ~ 960 MHz
7	Support work area	China 1，China 2 US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 with & without LBT regulations Japan、Korea、Malaysia、Taiwan
8	output power	Software adjustable, step interval 1.0dB,+5dBm -+25dBm
9	Output power flatness	±0.2dBm
10	receiver sensitivity	-62dBm
11	RF port standing wave	≤1.5
12	Read distance	0 ~ 0.8m（Related to tag type, transmission power, and application environment）
13	Write distance	0 ~ 0.2m (Related to tag type, transmission power, and application environment)
14	Interface communication speed	115200bps
15	Working temperature detection	Support
16	Antenna type	Near Field Antenna
17	Interface	MINI USB
18	buzzer	yes
19	appearance design	Plastic box shell design
20	Dimension	130*82*11mm