

UHF RFID Integrated Industrial Reader VI-IR600



Product Features:

- (1) The appearance adopts industrial design, sturdy and durable, and meets the harsh industrial production line environment (electromagnetic interference, dust, waterproof, anti-dismantling, resistance up to -40°C~70°C environment, vibration, and noise). Waterproof meets IP67 requirements and shockproof standards: Vibration EN 60 068-2-6; Lightning protection standard: Shock EN 60 068-2-27; Magnetic compatibility (EMC): EN 61000-6-3(2007)+A1(2011)/EN61000-6-2 (2005);
- (2) Support electronic tags that comply with EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C/ ISO 18000-6B standards;
- (3) The normal version supports Modbus protocol, and the PROFINET version supports ModbusRTU and PROFINET protocols (special instructions are required when purchasing);
- (4) Working frequency 865~868MHZ, 902~928MHZ (can be adjusted according to the requirements of different countries or regions);
- (5) The output power is adjustable, the card reading distance is 0mm~7500mm, and the card writing distance is 0mm~4000mm;
- (6) Support multiple working modes such as automatic card reading, command card reading, and trigger card reading;
- (7) Card reader buzzer and LED status indication; support firmware upgrade through communication interface;
- (8) The products have passed FCC, CE, etc. certification by authoritative testing agencies at home and abroad;
- (9) The bottom cover is designed with a mounting bracket to facilitate the installation of readers in the industrial production line environment;
- (10) The regular version supports RS232 serial port and network port to upgrade the

firmware, and the PROFINET protocol version supports RS232 serial port and WIFI to upgrade the firmware;

(11) Applicable to automated production line projects, such as production assembly lines, sorting lines, cycle logistics, automated production lines, mold management, auto parts and assembly lines, etc.;



Logistics sorting line



Auto parts management



Machine tool management

Specification:

Model VI-IR600	
Performance Index	
RF core chip	Indy R2000 dedicated radio frequency chip
Air interface agreement	EPC Global UHF class1 Gen2/ISO 18000-6C/ISO 18000-6B
Frequency Range	902~928MHz or 865~868MHz
RF output power	0~33dBm±1dBm
Maximum receiving sensitivity	-75 dbm; Maximum return loss: 10 dbm
Reading distance	0~7500mm (related to reader parameter configuration, antenna gain, tag type)
Write distance	0~4000mm (related to reader parameter configuration, antenna gain, tag type)
Support area	The U.S., Canada and other regions that comply with U.S. FCC Part 15 regulations Europe and other regions complying with ETSI EN 302 308 specifications China, India, Japan, South Korea, Malaysia, Taiwan
Frequency modulation method	Broad spectrum frequency modulation (FHSS) or fixed frequency, can be set by software
Number of antennas	Built-in 5dbi four-wall helical antenna
	-10dbi near field PCB antenna
Communication Interface	RS232, RS485, RJ45
Protocol support	Normal version supports Modbus RTU, Modbus TCP protocol
	PROFINET version supports Modbus RTU, PROFINET protocol
WiFi	Support IEEE 802.11 n/b/g

Heating device (optional)	Low temperature automatic heating (minus 5°) optional (determined according to the project site environment)
Communication rate	Serial communication rate 9600 ~ 115200bps, RJ45 communication rate 10/100Mbps
Work status display mode	LED indicator, buzzer
GPIO	2 inputs, 4 outputs
Firmware upgrade	Scalable upgrade mechanism or WIFI upgrade
Application software interface	Provide API development kits and C and Java application routines
Mechanical and electrical properties	
Size	120 (length) * 125 (width) * 50.5 (height) mm
Power supply	Working voltage DC9~24V, PROFINET version supports POE power supply
Power consumption	Maximum power consumption 3W, maximum starting current 1A
Packed weight	1.68KG
Humidity	5% ~ 95%, non-condensing
Protection level	IEC IP67
Operating temperature	-40°C ~ 70°C
Storage temperature	-40°C ~ 85°C
Connector form	Round waterproof M12 pin female seat
Compliance certification	FCC certification, CE certification
Mounting bracket method	Aluminum alloy bracket, adjustable reading angle

