Manuals+ — User Manuals Simplified.

ZKTeco UHF 5F Lite UHF Reader User Manual

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ZKTeco UHF 5F Lite UHF Reader

Product Information

The UHF 5F lite RFID reader is a high-performance integrated reader designed for long-range operation. It operates in the frequency range of 920-925MHz (International), 902-928MHz (USA), and 865-868MHz (EUR) and is designed to read ISO18000-6C and ISO18000-6B protocol ID tags. The reader can be widely applied in many RFID application systems such as logistics, access control, anti-counterfeit, and industrial production process control systems. It comes with various communication ports and accessories for easy installation and usage.

Product Specifications

- **Model:** UHF 5F lite
- **System Parameter:** ARM7+UHF model
- **Operating Frequency:** International 920-925MHz, USA 902-928MHz, EUR 865-868MHz
- **Read Range:** >8m
- **Group of Reading Performance:** >50PCS
- **Support Protocol:** ISO18000-6B, ISO18000-6C, EPC GEN2
- **Frequency Hopping Mode:** Fixed Frequency Band and FHSS
- **Operating Mode:** Software Programmable Master-Slave Mode, Online Mode, Time Scheduled Modes, Trigger Mode
- **Communication Port:** RS232, RS485, Wiegand26, Wiegand34, RJ45, WIFI, GPRS, USB
- **Power Prompt:** Beep or LED light flash
- **Power Consumption:** < 3W
- **Operation Humidity:** 20% – 70% (without condensation)
- **Storage Temperature:** -40°C – +125°C
- **Dimension/Packing:** 260x260x60MM /390x270x80MM
- **Net Weight:** 1250G
- **Weight:** 2000G

Accessories

- Software Pack (Optional)
- API Software Development Kits complete with VB, C#, Sample Program

Core Definition

CORE	DESCRIPTION
RED	+12V
BLACK	GND
BROWN	RS232 TXD
YELLOW	RS232 RXD
BLUE	RS232 GND
GRAY	TRIGGER
PURPLE	RS485 R+
ORANGE	RS485 R-
GREEN	DATD0
WHITE	DATD1

Area of Application

The UHF 5F lite RFID reader can be widely applied in many RFID application systems such as:

- Logistics
- Access control
- Anti-counterfeit
- Industrial production process control system

FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product Usage Instructions

To use the UHF 5F lite RFID reader, follow the instructions below

Installation

1. Choose a suitable location to install the reader. Make sure it is within the read range of the tags you will be using.
2. Connect the reader to a power source using the +12V and GND wires.
3. Connect the communication port of your choice (RS232, RS485, Wiegand26, Wiegand34, RJ45, WIFI, GPRS, or USB) to your device.
4. Install the software and API development kit (optional) on your device.

Usage

1. Power on the reader using the +12V wire.
2. Hold the tag within the read range of the reader. The reader will beep or flash its LED light to indicate a successful read.
3. Use the communication port to transfer the data collected by the reader to your device.

Mid distance Integrated Reader 860 960MHz

AD SM109

- UHF 5F lite is a High Performance UHF integrated reader for long range operation. The reader operates in frequency range of 960MHz 960MHz design to read ISO18000-6C and ISO18000-6B protocol ID Tag. The reader can be widely applied in many RFID application systems such as logistics, access control, and anti counterfeit and industrial production process control system.

front

behind

accessories
Install bracket

packaging
RFID READER

Specification

ITEMS	DESCRIPTION
Model	UHF 5F lite
System Parameter	ARM7+UHF model
Operating Frequency	International 920 925MHz
	USA 902 928MHz
	EUR(865 868MHz)
	Others Customized Tag
Read Range	>8m
Group of reading performance	>50PCS
Support Protocol	ISO18000-6B ISO18000-6C EPC GEN2
Frequency Hopping Mode	Fixed Frequency Band and FHSS Software Programmable
Operating Mode	Master-Slave Mode(Online Mode Time Scheduled Modes Trigger Mode
Communication Port	RS232 RS485 Wiegand26 Wiegand34 RJ45 WIFI GPRS USB
Power	+12V
Prompt	Beep or LED light flash
Power Consumption	< 3W
OPERATING ENVIRONMENT	
Operation	20℃ +70℃ Customized
Humidity	20 95 without condensation
Storage	40℃ +125℃
PHYSICAL PARAMETER	
Dimension/packing	260x260x60MM / 390x270x80MM
Net Weight	1250G
Weight	2000G
ACCESSORES	
Software Pack (Optional)	API Software Development Kits complete with VB,C#Sample Program

Core definition

ITEM	DESCRIPTION
RED	+12V
BLACK	GND
BROWN	RS232 TXD
YELLOW	RS232 RXD
BLUE	RS232 GND
GRAY	TRIGGER
PURPER	RS485 R-
ORANGE	RS485 R+
GREEN	DATD0
WHITE	DATD1

Area of Application

Parking lot Management

Automotive and Transportation

Personnel management

Logistic Management

Product Line Management

Library Book Management

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment

has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.
- To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body
  - Use only the supplied antenna.

Shenzhen Aosid Electrical Co.,Ltd http://www.aosid.com

Documents / Resources

ZKTeco UHF 5F Lite UHF Reader [pdf] User Manual
UHF5FLITE, 2AJ9T-UHF5FLITE, 2AJ9TUHF5FLITE, UHF 5F Lite UHF Reader, UHF 5F Lite, UHF Reader, Reader