

PRODUCT SPECIFICATION



DESCRIPTION:

Product name: RFID UHF Middle Range Integrated Reader

MODEL NO.: MR6221E

1 Introduction

MR6221E UHF RFID Reader base on new generation reader technology platform development which is combine UHF RFID advanced technology and many years reader application base experience. This reader is more stable and can use in various applications

2 Supported RFID Tag Protocols

EPC Gen 2; ISO 18000-6C

3 Parameter

Items	Parameter
Frequency	US (902~928MHz) , China (920~925MHz) , EU (865~868MHz) , other frequency selectable

Supported RFID Tag Protocols	ISO18000-6C,EPC G2
Reader Protocols	MarktraceRFID reader protocol, firmware upgradable
RF Power	0~30dBm adjustable
Sensitivity	-80dBm
Antenna	9dBi linear polarization antenna
Read Speed	Multi tag-200pcs/second, single tag 2000 times/minute
Reading Range	14 m max
Processor	ARM CORTEX M3 100M CPU
Memory	16KB tag data memory
Data Interface	100M Ethernet Interface (TCP/IP)
	RS232,RS485, Wiegand 26/34
	1 set input and 1 set output (TTL), 1 set relay
Software SDK	C++
Power Supply	DC+9V~+15V
Indicators	Buzzer
Environment Rating	IP65
Working Temp.	-25~65°C
Weight	1.5kg
Dimensions	280*280*68.5mm
Certifications	FCC, CE
Color	Gray

4 Functional Description

4.1 ISO18000-6C / EPC G2 Tag operation

Reader Support ISO18000-6C, EPC G2 tag, It support Multi tag query, read, write, selection, Single tag read, write, lock, kill

4.2 Working Parameter Setting

User can set the parameter of interface, IP address, Jump Frequency point, output power, reading indication, working mode etc; When in Timing or Trigger mode, can set the parameter of reading card type, read area, address, length, output method, output interface

4.3 Communication Function

Support Ethernet, RS232 and RS485 both-way communication interface, protocol compliant to 《UHF RFID reader and PC communication protocol V2.0》 ; Also reader support Weigand single way data transmission interface, format compliant to Wiegand 26 and Wiegand 34 interface protocol

4.4 Off-line working mode

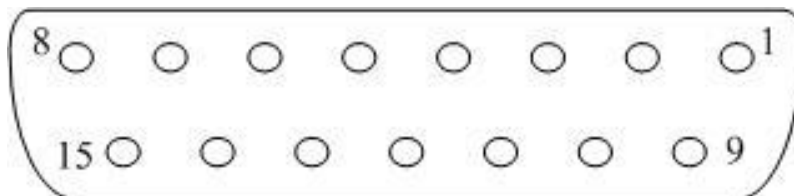
Support timing read or trigger read working mode, all tags in query area can be read according to set address and length, read data direct output or buffer. Read data can selected for filtering same tag. Output data interface can be any one of interface or multiple interface, meanwhile can configure relay

Data buffer have power-off function preserves.

4.5 Maintain and update functions

Support web network server function, can set working parameter on Web page, reader also support Serial port and RJ45 port upgrade in the application firmware

5 Interface Definition



DB15 Pin Diagram

DB15 pin function allocation

Pin number	Pin function
1	GPIO signal output2
2	GPIO signal output1
3	Signal Ground
4	RX(RS232)
5	TX(RS232)
6	Signal Ground
7	GPIO signal input 2(closed)

8	GPIO signal input 1
9	Signal Ground
10	A+ (RS485)
11	B- (RS485)
12	Signal Ground
13	Relay normal close port
14	Relay common port
15	Relay normal open port