



## INTRODUCTION:-

MR6111E UHF RFID reader base on new generation reader technology platform development, combine UHF RFID advanced technology and many years reader application base experience. This reader is more stable and can use in various applications.

## OPERATION CONSTRAINTS:-

UHF can NOT pass through solar film with heavy metal oxide such as VKOOL. If heavy metal oxide total block UHF signal, might require user to wind down windows for about 20cm to allow UHF signal penetration into car and read card.

## PROTOCOL:-

<ISO/IEC18000-6 TYPE B>  
<ISO18000 Part 6 Parameters for air interface communications at 860MHz to 960MHz>  
<EPC RFID Protocols Class-1 Generation-2 UHF RFID Protocol for communications at 860MHz to 960MHz>  
<800/900MHz RFID Technology application implementation regulations>

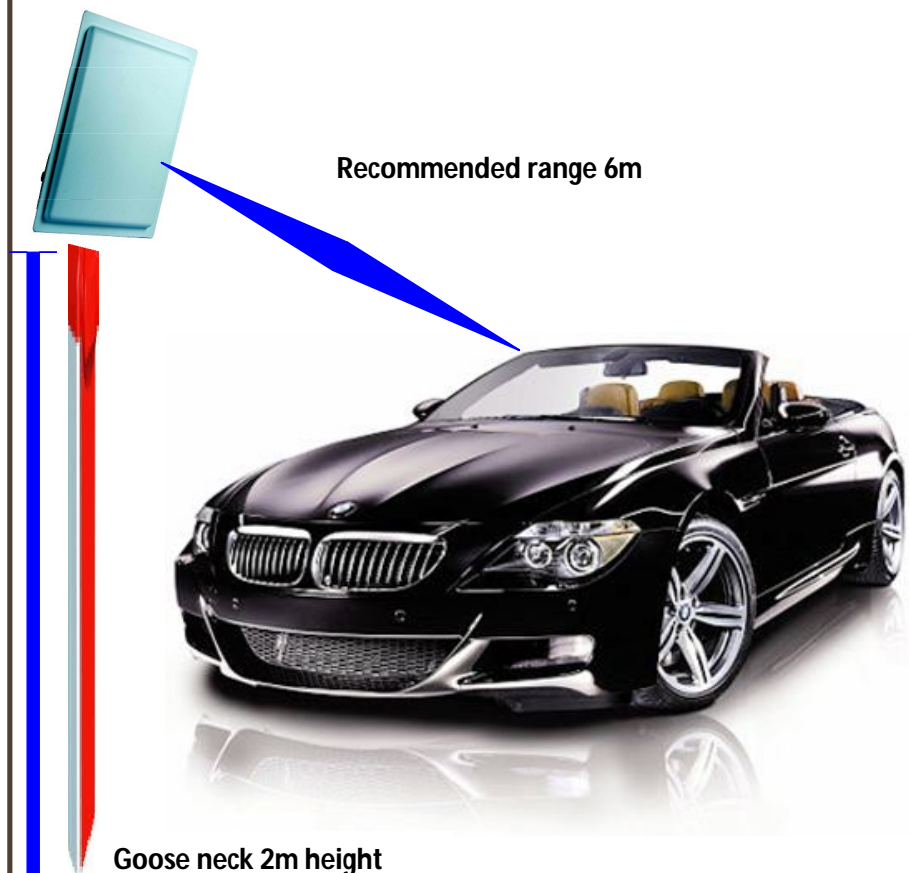
## ORDER INFORMATION:-



Model :AY-MR6111E UHF LONG RANGE INTEGRATED READER



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# FALCO UHF LONG RANGE INTEGRATED READER

## 1 EPC G2 Tag operation function

Reader Support EPC G2 tag: Multi tag query, read, write, selection, Single tag read, write, lock, kill

## 2 ISO18000-6B Tag operation function

Reader support ISO18000-6B Tag: Multi tag query, Single tag read, write, lock, query the lock

## 3 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 read Card type, read area, address, length, output method, output interface

## 4 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 wiegand single way data transmission interface, format compliant to Wiegand 26 and Wiegand 34 interface protocol

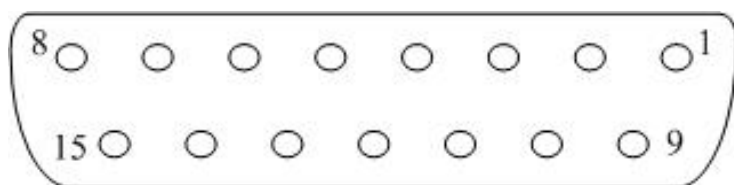
## 5 Off-line working mode

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.

## 6 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

## INTERFACE DEFINITION:-



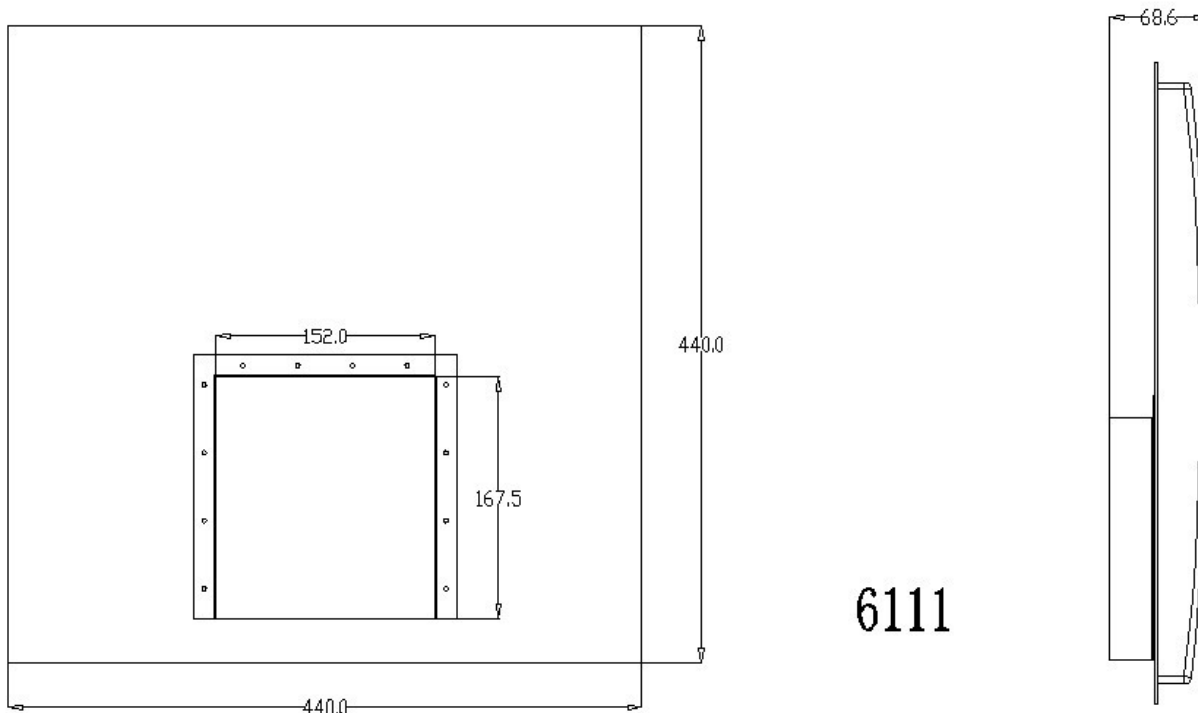
DB15 pin function allocation

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

## SPECIFICATION:-

Model	AY-MR6111E
Protocol	ISO18000-6B/6C,EPC G2
Frequency Range	US (902~928MHz) , China (920~925MHz) , EU (865~867MHz) , other frequency selectable
RF Power	0~31dBm adjustable
Sensitivity	-80dBm(12dBi antenna more than 12 m)
Reading Speed	Multi tag-200pcs/second, single tag 2000 times/minute
Processor	ARM CORTEX M3 100M CPU
Memory	16KB tag data memory and 32KB Ferroelectric memory
Data Interface	100M Ethernet Interface RS232/RS485 interface wiegand 26/34 One team input and one team output (TTL), one team Relay
Reading Range	MAX 6m
Power Supply	DC+9V~+15V
Working Temp	-20~60°C
Dimension	440mm×440mm×50mm
Weight	2 Kg
Card type	TA-80, TA-80+EM and TA-80+M1

## APPEARANCE STRUCTURE:-





## Model(Order Code) TA-80 UHF RFID Card

<b>Physical Characteristics</b>	Dimensions	84(L)*54(W)*0.8(H)mm
	Material	PVC,PET
<b>Environment</b>	Operating Temp	-10°C to 50°C (14°F to 122°F)
	Storage Temp	-10°C to 50°C (14°F to 122°F)
	non-condensing	IP-67
<b>Protocol</b>	ISO18000-6B/EPC Class1 Gen2	
<b>Memory size</b>	2048bits/96bits	
<b>Frequencies</b>	UHF	



## Model(Order Code) TA-80+EM | TA-80+M1 Dual-Frequency RFID Card

<b>Physical Characteristics</b>	Dimensions	84(L)*54(W)*0.8(H)mm
	Material	PVC,PET
<b>Environment</b>	Operating Temp	-10°C to 50°C (14°F to 122°F)
	Storage Temp	-10°C to 50°C (14°F to 122°F)
	non-condensing	IP-67
<b>Protocol</b>	ISO18000-6C/EPC Class1 Gen2/ EM 4100	
<b>Memory size</b>	96bits/40bits   96bits/8Kbits (1K bytes)	
<b>Frequencies</b>	UHF + 125kHz   UHF + 13.56 mHz	

## UHF INLAY STICKER

Size	80mm x 32mm
Material	PET
Color	Silver / Transparant
Environement	-40°C - +60°C
Write Circle	100.000
Delivery Format	Package size : 1000pcs/rdl
Memory	96bits, expand memory 512bits
Opr. Frequency	860 - 960Mhz
Operation	Passive
IC	Alien Higg 3

