# HYINTECH

# HYB608 UHF RFID Integrated Reader&Writer



Size: 235mmx235mmx57mm

OEM, No Logo on Product is Available

⊕ <u>www.hyintech.com</u> ⊕

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### **General Description**

HYB608 is a high performance UHF RFID integrated reader&writer. It is designed upon fully self-intellectual property. Based on proprietary efficient digital signal processing algorithm, it supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, access control, anti-counterfeit and industrial production process control system.

## FEATURES

- Self-intellectual property;
- Support ISO18000-6B, ISO18000-6C(EPC C1G2) protocol tag;
- 860~928MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 8dbi antenna optional with Reading distance up to 8 meter;
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, Wiegand interface;

\* Effective distance depends on antenna, tag and environment.

# **CHARACTERISTICS**

• Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
	VCC	16	N/
Power Supply	VUU	16	V
Operating Temp.	T <sub>OPR</sub>	-10~+55	°C
Storage Temp.	T <sub>STR</sub>	-20~+75	°C

• Electrical and Mechanical Specification

Under  $T_A = 25^{\circ}C$ , VCC=+9V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	Ic		350	650	mA
Frequency	F <sub>REQ</sub>	860		928	MHz

#### Interface

Item	Comment
Red	+9V
Black	GND
Yellow	Wiegand DATA0
Blue	Wiegand DATA1
Purple	RS485 R+
Orange	RS485 R-
Brown	GND
White	RS232 RXD
Green	RS232 TXD
Grey	Trigger input (TTL level)



#### DEMO SOFTWARE

SDK Include Full Demo Source Code, and full Manuals. Any further development could develop easily based on it. Any Technical Problem during your application and development, could consult our professional engineer team. Free Engineering Consultancy is one of our Outstanding After Service. Our Professional Engineer with rich experience on deployment will leave you guidance and instruction, solving your technical problem on programming.

	Parameter EPCC1-G2 Test	18000-6B Test Frequen	y Analysis	
List E	PC of Tags	() () () () ()		Query Tag
No.	ID	EPCLength	Times	Read Interval: 50ms - Query Tag
				Kill Tag
				-
				Kill Password (8 Hex): 00000000 Kill Tag
				-Write EPC (Random write one tag in the antenna)
EPC M∶	usk Enabled			Write EPC: (1-15Word) 0000
_ Ena	bled MaskAdr: 00	MaskLen:	00	Access Password (8 Hex): 00000000 Write EPC
Read I	ata / Write Data / Block	Erase		Read Protection
		-		
O Pas	ssword 🧿 EPC 🍥 TID	🔘 Vser		Access Password 00000000 (8 Hex):
Addres	ss of Tag Data(Word/Hex):	00		Set Single Tag Read Protection
	n of Data(Read/Block Erase )/Word/D):	<u>۽)</u> 4		Set Single Tag Read Protection without EPC
Access	s Password (8 Hex): 000000	00		
Write	Data (Hex): 0000			Reset Single Tag Read Protection without EPC
Read		ockErase Clear		Detect Single Tag Read Protection without EPC
Set Pr	otect For Reading Or Writ	ing		EAS Alarm
		-		
Lock	of Password		EPC TID Use TID and User Bank	r Access Password 00000000 (8 Hex):
) Ki	ll Password 🔵 Access Pas	sword	from any state from the secured st	Alarm No Alarm Alarm Setting Check Alarm
	adable and writeable from v state			Lock Block for User (Permanently Lock)
	adable and writeable from		th Milifeapte	· · · · · · · · · · · · · · · · · · ·
Rea	rured state	🔵 Never wri	teable	Address of Tag Data 0 and 1 -
Rea				(Word):
Resident	manently readable and wri	iteable Access Passw	ord (8 Hex):	Access Password

ader Parame ist ID of T	i		no, marjara					
No. ID							Times	
iery Tag			-Read and Wri	te Data Block /	Permanently	y Write Protect	Block of byt	e
	1: 50ms	•	Read and Wri	te Data Block ;	<sup>7</sup> Permanently	y Write Protect	Block of byt	e
ad Interva		•	Start/Protec	t Address oo	<sup>7</sup> Permanently	Length or	f Data: 12	2053
ad Interva Query by	one	Query	Start/Protec (00-E9) (Hex)	t Address oo			f Data: 12	2053
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Hyintech Team

Supply You Best Products,

Free Detailed Manual and SDK

Most Professional Technical Support

Be Your Best Friend and Loyal Long Term Partner.

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