HYINTECH

HYH4W1T Long Distance HF Tag Reader&Writer



Size: 215mmx138mmx39mm OEM, No Logo on Product is Available

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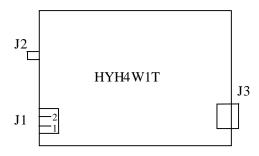
GENERAL DESCRIPTION

HYH4W1T is a high performance ISO15693 protocol HF tag reader. It is designed upon fully self-intellectual property. Based on proprietary efficient anti-collision 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, personnel identification, conference attendance system, access control, anti-counterfeit and industrial production process control system.

FEATURES

- Self-intellectual property;
- Support mainstream ISO15693 protocol tag (TI, PHILIPS, ST, INFINEON, FUJITSU, EM...);
- RF output power over 4W;
- Advanced anti-collision algorithm. High identification rate with tag processing speed 80pcs/s);
- SMA RF interface to support standard 50ohm RFID antenna. Reading distance up to 120cm;
- Support TRANSPARENT COMMAND and SCAN-MODE;
- Support optional DPPM and WPPM;
- Support multiple readers network;
- Low power dissipation;
- Provide DLL and demonstration software to facilitate development

INTERFACE DESCRIPTION



Top View

1. Power Supply Socket J1

No.	SYMBOL	COMMENT
J1-1	PWR	+11.6~15V
J1-2	GND	Ground

2. SMA Antenna Socket J2

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3. Communication Socket J3

Standard DB9 Female Socket to be directly connected to the host.

No.	SYMBOL	COMMENT
1	G_IN1	General TTL level input with internal 20k Ω pull-up
		resistor to +5V
2	TXD (R-)	RS232 serial data output or RS485 R-
3	RXD (R+)	RS232 serial data input or RS485 R+
4	G_OUT1	General TTL level output with drive/sink 5mA current
		(max.)
5	GND	Ground
6	G_OUT2	General TTL level output with drive/sink 5mA current
		(max.)
7	COMMON	Common contact of built-in relay
8	N_C	Normally close contact of built-in relay
9	N_O	Normally open contact of built-in relay

CHARACTERISTICS

Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
G_IN1、G_OUT1、 G_OUT2 I/O Voltage	V _{IO}	7	V
Operating Temp.	T _{OPR}	-25~+60	°C
Storage Temp.	T _{STR}	-25~+80	°C

• Electrical and Mechanical Specification Under $T_A=25^{\circ}$, VCC=+12.6V unless specified

1	ГЕМ	SYMBOL	MIN	TYP	MAX	UNIT
Powe	er Supply	VCC	11.6	12.6	15	V
Current	Dissipation	Ic		0.8	1.2	Α
Fre	quency	F _{REQ}		13.56		MHz
Effective	e Distance	DIS	0	900	1000	mm
G_IN1	Input Level	V _{IH}	3.5	2.6		V
		VIL		2.3	1.55	V
	1, G_OUT2 It Current	±lo			5	mA
	I√ G_OUT2 out Level	$V_{OH}(I_O=-5m)$ A) $V_{OL}(I_O=5m)$ A)	3.95		0.73	V
	Rated Load	CLOAD			0.5A at 125VAC 1A at 24VDC	
Relay	Operating Voltage				125VAC 60VDC	V
	Operating Current				1	A
	Size	LxWxH		215 x 138 x 39		mm

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

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.

ommand TestMode Scar	Mode Customized Block Length Transparent Com	mand Power Allocation	
Communication	Reader Information		
COM Port: Auto 🔻	Type: Version: Pro	tocol:	30 - *100ms Set
Reader Address: FF	Address: Max InventoryScanTime:	*100ms GetReaderInfo	Access Time
Open COM Port	Enabled Baud Setting	Set Baud	0 * *100ms Set
Baud:		115200bps -	*100ms Get
115200bps 🔻	💮 Setting Effective 🔘 Setting Invalid	Set Baud	-Inventory Acceleration-
Opened COM Port:	Operation Mode		🔵 Enable 🍥 Disabled
	🔪 💌 🔿 🖉	lectMode 🔘 Non-AddressMode	-Parse Mode
Close COM Port	Tag Information		🔵 DPPM 💿 WPPM
Power Management		GetSystemInformation	-Modulation Rate
Open RF		A	Inventory (One tag)
Close RF	- Block Operation		Inventory
-Change Reader Address		▼ BlockSize: ▼	Inventory (AFI)
Address(HEX):	Block:	ReadSingleBlock	-Inventory (Multiple tag)
Change			New Inventory
-General Output State-	Lock Block	WriteSingleBlock	Consecutive Inventory
Output1: Output2:	From Block: To Block:	* ReadMultipleBlock	New Inventory (AFI)
Low -	AFI (Hex)		Consecutive
Set	AFI: 00 Write AFI	Lock AFI	Inventory (AFI)
General Input State -	DSFID (Hex)		DSFID-VID List
Get	DSFID: 00 Write DSFID	Lock DSFID	
Realy State	Other Command		
Active = Set	Stay Quite Selected	ResetToReady	
Get ANT Status	Set Active Antenna		
Get) 💿 anti 💿 anti 💿 a	NT4 Set	
TX_RX_ANT Status	Set TX_RX_ANT		2
Get	TX/RX Channel RX_Channel	Set	
	COM Close		Tag Count: O

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ommand Test	lode Scanmod	e Customized B.	lock Length Trans	parent Co	mmand Power Allocati	on		
ScanMode	211		39 - 2311) - 3	8		X.A.		
) Data Scan EAS Scan	Normal S High Ser		Input-Sync Disable Input-Sync Enable		mmand-Sync Disabled mmand-Sync Enabled		an Fluse Disable an Fluse Enabled	
EAS Alarm Scan EAS i	Output Disab Larm Output		Alarm Message Dis Alarm Message Ens					
⊚ Com_Adr ● No Com_Adr	() VID No VID	Block Data None None	Block Status None None) Hex ASCII	OpenRF And Close None		Close RF when stop scanning None	IED Buzzer None
FirstBlock: 1	-V	ser Define Mark		Current	Block Length		SetScanMod	le
lockCount: []	•	📄 Space Char					OpenScanModeDat	taShow
firstByte: [📃 End Char				- 1	CloseScanModeDa	itaShow
ByteCount: 1					ScanMode status	1	Activate Scan	ming
Space Char: [End Char:]	R+LF ▼			No St	acnMode	(Deactivate Sca	nning
						(CloseScanMo	de
Data Show Fo	rmat						2.	



and TestMode ScanMode Cus	tomized Block Lengt	n Transparent Command	Power Allocation
et User Define Block Length-	Get User Def	ine Block Length	Inventory (One Tag)
0x01 -	:h	Get Block Length	Inventory
Operation Mode			Inventory (AFI)
•	🔘 Select Mode		-Inventory (Multiple Tags)
Address Mode	🔘 Non-Address Mo	de	New Inventory
Block Operation			Consecutive Inventory
Tag Writing Type: B 💌	Max BLock: 1	*	New Inventory (AFI)
Block Number: 0 💌		ReadSingleBlock	Consecutive Inventory (AFI)
		WriteSingleBlock	
From Block: 0 💌 To	Block: 0 👻	ReadMultipleBlock	

Hyintech Team

Supply You Best Products,

Free Detailed Manual and SDK

Most Professional Technical Support

Be Your Best Friend and Loyal Long Term Partner.

More Detail Please Visit Our website www.hyintech.com

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RECOMMENDED ANTENNA

Module:

HYP3242



Size: 28mmx320mmx420mm

OEM, No Logo on Product is Available