SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

Fixed UHF Reader

UR4 User Manual



Statement

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Staten	nent	1
Chapt	er 1 Product Intro	
1.1	Intro	3
1.2	Brief	4
1.3	Device List	5
1.4	Device installation	6
1.5	GPIO	6
Chapt	er 2 Installation instructions	7
2.1	Appearance	7
2.2	Parameter Setup	8
Chapt	er 3 Read and Write EPC	
3.1	Read EPC	
3.2	Read & Write Tags	
3.3	Lock UHF Tag	
3.4	UDP-ReceiveEPC	21
3.5	Others	

Chapter 1 Product Intro

1.1 Intro

Chainway UR4 is a high-performance four-channel fixed UHF reader. The core chip adopts Impinj R2000 module with high integration and excellent performance. With Stable and reliable capacity, excellent anti-electromagnetic interference capability and heat dissipation performance, it meets the requirements for installation and application of various indoor and outdoor environments and can be applied in multiple industries with strict RFID application standard such as warehouse management, archives and library management, bank, clothing and footwear retail, jewelry monitoring, watch industry, laundry, production line management, medical instrument cabinet and vending machines.

1.2 Brief

UR4 has adopted DC 12V/5A power supply, it can be equipped with multiple types of antennas with different output power such as 6dBi, 9dBi. Also UR4 has adopted reverse SMA female port, RS232 and RJ45 interfaces, Windows SDK and demo are provided.

1.3 Device List

- 1. UR4 fixed reader, 12V/5A power adaptor.
- 2. UHF antennas: 6dBi, 9dBi, etc.
- 3. Feeder line that has adopted with reverse SMA port, the port on other side needs to be equipped with antenna.
- 4. RJ45 Ethernet cable.
- 5. Serial port cable.
- 6. Demo software, it includes 4 necessary files and UHFAPP.exe is execute program as pic. 1.

Name	Compressed	Original	Туре	Modified
J				
📄 ipConfig.txt	28	28	Text Document	8/2/2018 11:24:19 AM
WHFAPI.dll	55,281	208,896	Application extension	11/8/2018 3:15:05 PM
🗉 UHFAPP.exe 🔶	56,234	201,216	Application	11/14/2018 5:59:32 PM
WindowsFormsControlLibrary1.dll	3,713	9,216	Application extension	7/20/2018 10:11:22 AM

Pic.1

1.4 Device installation

UR4 can be connected as Pic.2. PC can connect with device by serial port cable (communication velocity is 115200bps). Also it can be connected by Ethernet cable through RJ45 port. (Default IP address of UR4 is 192.168.99.202, Port is 8888).

PC needs to be set with UR4 in same network segment and PC could connect with multiple UR4 devices through switchboard or similar. One UR4 can be connected with 4 antennas at maximum.



1.5 GPIO

1	2	3	4	5	6	7	8
NC	NC	output :	output :	input :	input :	input :	input :
		Relay pin 1	Relay pin 2	Optically	Optically	Optically	Optically
				coupled 1	coupled 1	coupled 2	coupled 2
				LED+	LED-	LED+	LED-

UR4 contains a GPIO interface, which is defined as follows :

1、IO1-2: NC, unable to connect to any electrical level;

- IO3-4 : Controllable by software, maximum switching voltage of electric relay is 220Vdc, 250Vac;
- 3、IO5 : Optically coupled 1 input LED+, voltage range between IO5 and IO6 is 3-5.5V, maximum current is 50mA ;
- IO6 : Optically coupled 1 input LED-, voltage range between IO5 and IO6 is 3-5.5V, maximum current is 50mA ;
- 5、IO7 : Optically coupled 2 input LED+, voltage range between IO7 and IO8 is 3-5.5V, maximum current is 50mA ;
- IO8 : Optically coupled 2 input LED-, voltage range between IO7 and IO8 is 3-5.5V, maximum current is 50mA ;

Chapter 2 Installation instructions

2.1 Appearance



2.2 Parameter Setup

Double click UHFAPP.exe to enter software, and connect with device through serial port line. Select **Mode** to "SerialPort", select COM to according serial port on PC. Click "Open" to connect with device, initiation page is as follows:



If RJ45 has been used as connection, communication **Mode** needs to be selected as "network" and input IP address and port number (default IP address is 192.168.99.202, Port is 8888.) Then click "Open" to connect PC and device. After PC and device have been connected, the status page is as follows:

UHF(1.2.4	l) - [ReadEPC]													
ReadEPC	ReadWriteTag		Configuratio	on k	all-	Lock	U	HF Info		Temp	erature	UDP-Receiv	reEPC	
 Mode net	work	·	IP	192].	168		99].	202	Port	8888	Open	

🖳 UHF(1.2.4) - [ConfigForm]		× -
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info 1	emperature UDP-ReceiveEPC	
Mode network * IP 192 . 168 . 1 . 201	Port 8888 Close 语言 English ・	
Power	Gen2	FastID
Output Power: 30 • dBm	Target: 000(s0) - startQ: 4 -	O Enable
Get Set Save	Action: 000 • minQ: 0 •	Get Set
Region	Truncate: O(Disable) - maxQ: 15 -	Tagforus
Region: USA •	Q: 1(Dynamic) • DR: 1(DR=64/3) •	Enable Disable
Get Set 🛛 Save	Hiller: 10(H=4) • Session: 01(S1) •	TemperatureProtect
EFLink	Target: 0(A)	value 75 50-75
RFLink: PR_ASK/Miller4.250KHz -	sel: 01(ALL) • linkFrequency: 011(250KHz) •	
get Set DSave	Set	get set
	ANT	Pro And Tra
ON OFF	V ANTI ANTZ ANTA ANTA ANTA ANTA ANTA ANTA ANTA	Get Set Save
	gét Sét Suve	Reset
IP: 192 168 1 201	ANT ANTI scorkTime 200 10-65535as	Burrer=
		• Open Olose
Port: 8888	get set bave	
× [1.

After device has connected with PC, the parameters on interface will be empty. Click "Get" on each option to collect device parameters.

Click "Set" on the page, user can adjust necessary parameters, some parameters are default values.

Output power can be set in range of 5 dBm to 30 dBm as following picture, after select value, click "Set" button. If "Save" has been selected, current parameters will be saved after power off device.





Region		
Region:	USA	-
	China1 China2 Europe	Z Save
_	USA	
RFLink	Korea Japan	

Set continuous wave:

cw			
	ON	OFF	

There are two work modes can be selected, "command mode" and "auto mode".

Under "command mode", user could collect tag data in "Read EPC" page, click "Start" to send command to device on PC, click "Stop" to stop collecting tag data.

Under "auto mode", user could collect tag data in "UDP-ReceiveEPC" page, click "Start" to receive data, click "Stop" to stop receiving data. After selecting "auto mode", the device needs to be restarted.

Mode:	command mode	-
	command mode	
	auto mode	

Set IP address and make sure PC and device have used in same segment. For example, if IP address of PC is 192.168.1.109, mask is 255.255.255.0, the device IP address can be set to 192.168.1.201, port number doesn't need to be changed.

ocal IP		
IP:	192 . 168 . 1 .	201
Port:	8888	
	get set	

Set antenna connection, there are 4 I/O ports on device and have been marked as ANT1, ANT2, ANT3, ANT4. User needs to select antenna which has been connected and click "set".

ANT1	ANT2 A	NT3 🔄 ANT4 🛛	ants 📄 ante	ANT7 🔲 ANT8
ANT9	ANT10 🗖 A	NT11 🦳 ANT12	📄 ANT13 📄 ANT14	ANT15 ANT16
	get] [set	C Save
ANT : A	NT1 🗸	workTime:	200	10-65535ms
	get] [set	Save

Set destination IP address and port number, destination IP address is the IP address which used for reading tag data under "auto mode".

IP:	192		168	•	1	•	109
Port:	9999						
	ge	t		[5	set	

Set FastID:

FastID	
⊙ Enable	Disable
Get	Set

Set TagFocus:

Tagfocus						
🔘 Enable	Oisable					
Get	Set					

Set protective temp. It means to setup highest operating temperature of UHF module:

Te	mperaturel	Protect		
	value	75		50-75
		get	set	

Set EPC and TID:

EPC And Tid	
🔘 Enable	◉ Disable
Get	Set 🗖 Save

Reset, click "Reset" button to restore device to default value. After reset, user needs to click "Close" and "Open" to reconnect the device.

Reset	

Set Buzzer, click "Open" to switch on buzzer function, device will play notification sound when reading tags.

• Open	⊙ Close	
get	cet	
	• Open	● Open ○ Close

Set Gen2, this parameter needs to be adjusted by actual requirements.

Gen2					
Target:	000(s0)	•	startQ:	4	•
Action:	000	Ŧ	minQ:	0	•
Truncate:	O(Disable)	•	maxQ:	15	•
Q:	1(Dynamic)	•	DR:	1(DR=64/3)	•
Miller:	10(M=4)	•			
			Session:	01(S1)	•
TRext:	1(Use pilot	•	<u>.</u>	2(1)	
	01 (ALL)		Target:	U(A)	•
sel:	UI (ALL)		linkFrequency:	011(250KHz)	-
	Set		Get		

Chapter 3 Read and Write EPC

3.1 Read EPC

Click "ReadEPC" in menu to enter EPC page, click "Start" to read tags, click "Stop" to stop reading. The EPC, RSSI, Count number and ANT number (antenna channel) will be recorded in window as following pic:

💀 U	HF(1.2.4) - [ReadEPC]									-								0 0 X
Re	adEPC	ReadWriteTag	Config	uration	Kill-Lock	UHF Info	Temperatu	re UDP	ReceiveEP	с									
Mo	de net	work +	IP	192	. 168 .	1 . 201	Port	8888	Close	1	语直 English	•							
Fil	ter									-					bank				Cet
Da	ta:								÷	0	Ptr: 32	(bit)	ngth: 16	(bit)	• EPC	O TID	O User	C Save	reset
	_																		
ID		EPC										TI	D				Rssi	Count	ANT
1		E200001973	1002791	490F3C3													-67	3	1
2		E200001973	OF01222	3005D85													-75	2	1
3		16013574															-73	3	1
4		1111222233	3344445	5556666													-68	6	1
5		16013530															-72	3	1
6		10010515788	1801901	090AB56													-55	3	1
6		11112222															-00	3	1
å		300588634C	1836918/	2990469													-63	4	1
10		16013555	11.000110	000400													-66	3	1
11		6788001778	0500541	6101111													-78	2	1
12		1111222211	1122222	2223333													-74	5	1
13		16013533															-69	3	1
14		9720180000	0076120	0000503													-80	2	1
			Ter	1.	14														
			10	Let I .	14			C1.007			C.	tant							
			Tie		4(s)			crear			3	tart							
			111		1(3)														

User could enter data in "Filter" to filter EPC of special tags, the maximum filter DL is 96 bits. User needs to setup data, initial address, data length and click "Set". After filtered data has been set, the device will read and search for the tag which has been filtered.

For example: enter 16 01 in "Data", initial address data length is 32(bit), length is 16(bit), select EPC in "bank", click "Set" and click "Start" to start scanning tags which the address start at 16 01:

💀 UH	F(1.2.4) - [ReadEPC]							-		-						6	x (1)
Read	EPC ReadWriteTa	Configuration	Kill-Lock	UHF Info	Temperature	UDP-Re	ceiveEPC										
Mod	e network	IP 192	. 168 .	1 . 201	Port 8	888	Close	语言	Englis	h							
Filte	r												hash				
Data	16 01						⁺ 2		Ptr:	32	(bit) ngth; 16	(hit)	· EPC	O TID	Olleer	Save	Set
																	reset
TD	FDC										TID				Reel	Count	ANT
1	16012555										110				-45	150	1
2	16013535														-52	156	1
3	16013530														-44	160	1
4	16013533														-59	110	1
5	16013574														-71	63	1
		T 1 .	-														
		Iotal:	5		-					C 1							
		Timet	Q(c)		C	lear				Sta	rt						
		lime:	9(8)														

3.2 Read & Write Tags

Click "ReadWriteTag" to enter its page, TID area can be read only, RESERVED, EPC and USER areas can be read and written.

UHF(1	.2.4) - [Rea	adWriteTagi	orm]											
ReadEP	C Read	WriteTag	Configur	ation	Kill-Lock	UHF Info	Temperature	UDP-ReceiveEPC						
Mode	network	-	IP	192.	168 .	1 . 201	Port 888	8 Close	语言 English					
filter	a: I	B2 00 51	57 88 1	8 01 9	0 10 90	AB 56		Ĵ 12	e EPC OT	ID O User	Ptr: 32	(bit) L	ength: <mark>96</mark>	(bit)
Read-wa	rite								BlockWrite					
Bank	.:	EPC							Bank:	BPC				
Prt:		2							Prt:	2				
Leng	gth:	6					(word)		Length:	6			(word)	
Acce	ess Pwd:	00000000)						Access Pwd	: 00000000				
Data	h:	E2 00 51	57 88	18 01	90 10 9	0 AB 56		12	Data:					0
			Read		Wri	te				(Erase	Write		
Set QT														
	QT:	Not redu	ices ran	ige	- priv	ate Memory	y map 👻							
			Get			Set								

filter Data:	E2 00 51 57 88 18 01 90 10 90 AB 56	12
Read-write Bank: Prt: Length: Access Pwd:	RESERVED PPC TID USER 00000000 (word)	
Data:	Read	0

Click one option in "Read-write" window to enter tag reading mode, EPC will be automatically copied into "Data" block in filter, default option is EPC reading, click "Read" to read 12 bytes of EPC area.

Data:	E2 00 51 57 88 18 01 90 10 90 AB 56		12
Read-write			
Bank:	EPC -		
Prt:	2		
Length:	6	(word)	
Access Pwd	00000000		
Data:	E2 00 51 57 88 18 01 90 10 90 AB 56	A 	12
	Read		

For "RESERVED" area, user could read 4 words at maximum, previous 2 words are password of KILL function, last 2 words are access passwords:

filter		
Data:	E2 00 51 57 88 18 01 90 10 90 AB 56	12
Read-write		
Bank:	RESERVED -	
Prt:	0	
Length:	4	(word)
Access Pwd:	0000000	
Data:	20 18 20 18 20 18 20 18	8
	Read	

Read TID area:

filter				
Data:	E2 00 51 57 88 18 01 90 10 90 AB 56		12	
Read-write				
Bank:	TID -			
Prt:	0			
Length:	6	(word)		
Access Pwd:	: 00000000			
Data:	E2 00 34 12 01 3C FA 00 09 AC AB 56		12	
	Read Write			

Read USER area:

filter					
Data:	E2 00 51 57 88 18 01 90 10 90 AB 56	12			
Read-write					
Bank:	USER -				
Prt:	0				
Length:	4	(word)			
Access Pwd:	0000000				
Data:	12 34 12 34 12 34 12 34	8			
Read					

Data could be written in EPC, RESERVED and USER areas, select according areas and input initial address, length, input data into "Data" window and click "Write" to write data into according areas.

3.3 Lock UHF Tag

Click "Kill-Lock" in main menu to enter Tag locking function. For this function, user could execute "Lock", "Kill", "Open", "Permanent Open" and "Permanent Lock", to execute "Lock" function, password is needed. If user wants to kill UHF tag, need to enter password and tag will be wasted permanently.

Restricting Comparison Black UP to Tormanner Units Image: Distriction Comparison Compa	UHF(1.2.4) - [Kil]_LockForm]	×					
Data E2 00 51 57 83 18 01 90 18 90 18 02 45 56 Image: Section to defail yourset Particular Section to defail yourset * Open Lock Permanent Open Permanent Open Permanent Lock * Norm E2 00 51 57 83 18 01 90 10 90 10 90 AB 56 12 12 * Norm Confirm Norm Permanent Lock Norm * Norm Confirm Norm Norm Norm Nata Confirm Norm Norm Norm Norm Nata Confirm Norm Norm Norm Norm Norm Nata Confirm Norm Norm Norm Norm Norm Norm Nata Confirm Norm Norm Norm Norm Norm Norm Norm Norm Nata E2 00 51 57 88 18 01 90 10 90 AB 56 12 12 Norm Norm Norm Norm Norm Nata E2 00 51 57 88 18 01 90 10 90 AB 56 12 12 12 12 12 Norm E2 00 18 20 18 Cock Permanent Open Permanent Lock Norm Norm	ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info Temperature UDP-ReceiveEPC						
Num Num Pers 12 00 51 57 88 18 01 90 10 90 AB 56 12 Num Num Access Pers 20 18 20 18 20 19 Gut two the default yearset But TID User Pers 22 (hit) Learth 36 (hit) Num Access Pers 20 18 20 18 00 19 00 AB 56 Pers 0 Readward Pers 0 Readward Pers 00 10 00 10 00 AB 56 Pers 0 Pers 0 Readward Pers 0 Rait Data: E2 00 51 57 88 18 01 90 10 90 AB 56 12 Inter Num Num Num Num Access Perd; 20 18 20 18 Curt we the default yearset Num Num Access Perd; 20 18 20 18 Curt we the default yearset 12 Inter E2 00 51 57 88 18 01 90 10 90 AB 56 12 Inter Inter Inter Inter Inter E2 00 51 57 88 18 01 90 10 90 AB 56 12 Inter Inter Inter Inter Inter E2 00 51 57 88 18 01 90 10 90 AB 56 12 Inter Inter Inter Inter Inter Inter Inter Inter Inter Inter Inter Inter Inter Inter Int	Mode network • IP 192 . 168 . 1 . 201 Port 8388 Close IBI English •						
base: 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12	filter						
Pick Pick with the first parent * Access Ped; 20 18 20 18 Personent Open Ext: * 20 * Open Confirm * Name * 100 * Conserved; * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 0	Data: E2 00 51 57 88 18 01 90 10 90 AB 56 12 back 9 EPC O TID O User Ptr: 32 (bit) Length:	96 (bit)					
Access Ped: 20 18 20 18 Get tax the default yearset * Open Lock Perment Open * Billryed Access rped: 000000 Reader of the internation of the in	leck Blockfursalock						
<pre>* Open</pre>	Access Pwd: 20 18 20 18 Can't use the defull passerd Bank: USER -						
Filtyed Access-ped: 000000 Rest.ok: Rest.ok:	@ Open O Lock O Permanent Open O Permanent Lock Ptr: 0						
Fill-ped Access-ped FC TD * USR Nate Nate*: Nat*: Nat*: Nat*: Na	Access-pwd: 0000000						
Lander: 00 00 Confirm Attern: Pred: 20 18 20 13 Caf t use the default password Filter: Data: E2 00 51 57 88 18 01 90 10 90 AB 56 12 look Access Pwd: 20 18 20 13 Can't use the default password 0 Open LockDate::00 08 00 Confirm Kill Access Pwd: 20 18 20 13 Can't use the default password 0 USER LockDate::00 08 00 Confirm Kill Access Pwd: 20 18 20 13 Can't use the default password 0 USER LockDate::00 08 00 Confirm Kill Access Pwd: 20 18 20 13	○ Kill-pwd ○ Access-pwd ○ EPC ○ TID ◎ USER ReadLock: Read •						
suit	Ledders 00 08 00 Confirm	-6 📄 block-7 📄 block-8					
Access Ped; 20 18 20 18 Cut't us the default passwort filter Data: E2 00 51 57 88 18 01 90 10 90 AB 56 12 lock Image: Cut't use the default password @ Open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd Kill EPC Kill Can't use the default password Kill EPC Kill Can't use the default password Kill Kill	Kill blade 9 blade 10 blade 11 blade 12 blade 13 blade	14 block=15 block=16					
filter Data: E2 00 51 57 88 18 01 90 10 90 AB 56 Data: I2 lock Access Pwd: 20 18 20 18 Open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC TID USER LockData:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill	Access Pwd: 20 18 20 18 Cui't use the defuelt password Bashbaf: Confirm						
filter Data: E2 00 51 57 88 18 01 90 10 90 AB 56 12 lock Access Pwd: 20 18 20 18 Can't use the default persond @ Open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC TID USER LockDate:00 08 00 Confirm Kill Kill Kill Can't use the default persond kill Kill Can't use the default persond	kill						
filter Data: E2 00 51 57 88 18 01 90 10 90 AB 56 12 lock Access Pwd: 20 18 20 18 © Open © Lock © Permanent Open © Permanent Lock © Kill-pwd © Access-pwd © EPC © TID © USER LockData:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill							
Iter E2 00 51 57 88 18 01 90 10 90 AB 56 12 lock Image: Can't use the default password 12 open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC TID USER LockData:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill Image: Can't use the default password		1					
lock Access Pwd: 20 18 20 18 Can't use the default password Open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC TockDate:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill Interview	Data: E2 00 51 57 88 18 01 90 10 90 AB 56						
lock Access Pwd: 20 18 20 18 Can't use the default password Open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC LockData:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill Image: State Sta							
Access Pwd: 20 18 20 18 Open OLock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC TID USER LockData:00 08 00 Kill Access Pwd: 20 18 20 18 Kill Access Pwd: 20 18 20 18 Kill	lock						
 Open Lock Permanent Open Permanent Lock Kill-pwd Access-pwd EPC TID USER LockData:00 08 00 Confirm Kill Access Fwd: 20 18 20 18 Can't use the default password kill 	Access Pwd: 20 18 20 18 Can't use the default password						
 Kill-pwd Access-pwd EPC TID USER LockData:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill 	Open O Lock O Permanent Open O Permanent Lock						
LockData:00 08 00 Confirm Kill Access Pwd: 20 18 20 18 Can't use the default password kill	⊙ Kill-pwd ○ Access-pwd ○ EPC ○ TID ◎ USER						
Kill Access Pwd: 20 18 20 18 Can't use the default password kill	LockData:00 08 00						
Access Pwd: 20 18 20 18 Can't use the default password kill	Kill						
kill	Access Pwd: 20 18 Can't use the default password						
	kill						

3.4 UDP-ReceiveEPC

After auto mode has been selected, restart device and select UDP-ReceiveEPC, click "Open" to connect device and select IP address of PC in address column, click "Stop" to stop receiving UHF tag data.

If user needs to escape auto work mode, "command mode" needs to be selected in work mode.

UHF(1.2.4) - [ReceiveEPC]			
ReadEPC ReadWriteTag Configuration Kill-Loc	k UHF Info Temperature UDP-ReceiveEPC		
Mode network + IP 192 168	1 . 201 Port 8888 Close	语言 English ・	
		-	
IP: 192.168.1.109 • Pc	rt: 9999	远程IP:	192.168.1.201
ID EPC		TID	Rssi Count ANT
1 11112222111122222223333			-72 22 1
2 11112222			-72 79 1
3 E2005157881801901090AB56			-67 44 1
4 3005FB63AC1F3681EC880468			-65 74 1
5 16013530			-46 135 1
6 16013555			-46 134 1
7 16013533			-47 135 1
8 16013545			-36 135 1
9 16013574			-51 133 1
10 678800177805005416101111			-71 1 1
Total:	10		
	Stop	Clear	
Time:	48(s)		

3.5 Others

Click "UHF information" in main menu to read hardware version and firmware version, click "Temperature" to read current temperature value of UHF module.

FCC Caution

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated withminimum distance 20cm between the radiator & your body.