SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

# Desktop UHF Reader

## R3 User Manual



#### Statement

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# **Chapter 1 Connection**

Open software in your PC, select USB in Mode, connect R3 through USB line, after driver has finished installation, click "Open" as Pic.1-1.

🛃 UHF(1.2.6) - [ReceiveEPC]					AB (0.1) B	星南東方安	1000			_	• X
ReadEPC ReadWriteTag	Configuration	Kill-Lock	UHF Info	Temperature	UDP-ReceiveEPC						
Mode USB •	Open					语言 English	-				
IP: 1 SerialPort USB		• Por	t: 8888					remote IP:			
ID EPC							TID		Rssi	Count	ANT
	T	otal:	0	Sta			lear				
		`ime:		Sta	rt	C	lear				

Pic 1-1

# **Chapter 2 Read EPC**

Select ReadEPC on top of navigation bar.

#### 2.1 Start Reading EPC

Click "Start" to read EPC, EPC, TID, Rssi and Count data will show up in blank area in Pic.2-1. Click "Stop" to stop EPC reading.

ReadEP	C ReadWriteTag	Configurat	ion Kill-	Lock	UHF Info	Temperature	UDP-Rece	eiveEPC							
Node [	JSB 👻	Cle	ose						语言 English	•					
ilter											bank				
								<b>2</b> 0	Ptr: 32	(bit) ngth: 0	(bit) 🖲 EPC	O TID O	User	Save	Set
															Tese
D	EPC									TID		F	Rssi	Count	ANI
	E2 00 00 17	01 OB 00	66 17 6	0 63 1	BC							-	-67.8	4	
2	E2 00 00 17	01 OB 01	29 18 1	0 5D .	AB							-	-65	5	
3	E2 00 00 17	01 OB 01	86 17 7	0 62 '	7C								-60.7	3	
1	E2 00 00 17	01 OB 02	65 17 4	0 65 !	57								-59.8	2	
5	E2 00 00 17												-61.7	2	
5	E2 00 00 17												-60.7	2	
	E2 00 00 17												-60.7	2	
3	E2 00 00 17												-69.6	3	
3	E2 00 00 17												-65.8	2	
10	E2 00 00 17												-60.7	3	
11	E2 00 00 17												-68.3	2	
.2	E2 00 00 17												-61.7	2	
.3	E2 00 00 17												-62.9	3	
L4	E2 00 00 17												-64.2	2	
.5	E2 00 00 17												-60.7	3	
16	E2 00 00 17												-61.7	3	
.7	E2 00 00 17												-63.5	2	
18	E2 00 00 17												-61.7	2	
19	E2 00 00 17												-65.8	2	
20	F7 00 00 17	01 0B 00	13 17 6	0.63.	81								-62 3	3	
	Tag Count 3	37 т.	otal:	98				<b>a</b> .							
		т	ime:	202	~			Stop	Cle	ar					

# 2.2 Filter

Filter function can be selected to filter tag that has been read, including start address(Ptr), length. EPC, TID, USER areas can be selected. Click "Save" to save current parameters, click "Reset" to reset module to default. As Pic.2-2.

🛃 UHF(1.	2.6) - [ReadEPC]														
ReadEP	C ReadWriteTag	Configuration	Kill-Lock	UHF Info	Temperature	UDP-ReceiveEPO	2								
Mode	JSB 👻	Close					语言	English		•					
Filter			-								bank				
Data:						* *	0	Ptr: 3	32	(bit) ngth: 0		O TID	O User	Save	Set
						•									reset
ID	EPC									TID			Rssi	Count	ANT
10	DIC									110			1(351	count	17441
	Tag Count (	) Tota	1: 0			Ctor		<b>C1</b>	ear						
		Time	: 0			Star	ι		ear						
-			v												

# **Chapter 3 Read and Write Tag**

#### 3.1 Read Tag

RESERVED, EPC, TID and USER areas can be selected to read data in each area and start address(Ptr) and data length(Len) can be adjusted. Default access password is 00000000, click "Read" to read data as Pic.3-1.

#### 3.2 Write Tags

There are four block areas for each tag (RESERVED, EPC, TID and USER), user could setup start address(Ptr) and data length(Len), input default access password 00000000 and hex value, then click "Write" to write data as Pic.3-1.

#### 3.3 Filter

User could setup parameters in "Filter" to filter start address, data length and data of tags in EPC, TID and USER areas as Pic.3-2.

🛃 UHF(1.2.6) - [ReadWriteTagForm]			
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC		
Mode USB  Close		语言 English 🔹	
filter			
Data:	Û O	• EPC • TID • User Ptr: 32	(bit) Length: 0 (bit)
Read-write		BlockWrite/Erase	
Bank: EPC •		Bank: EPC	-
Prt: 2		Prt: 2	
Length: 6	(word)	Length: 6	(word)
Access Pwd: 0000000		Access Pwd: 00000000	
Data: E2 00 00 17 01 0B 02 16 17 70 62 BB	12	Data:	0
Read Write		Erase	Write
Set QT QT: Not reduces range • private Memory Cet Set	map •		

Pic.3-1

🛃 UHF(1.2.6) - [Rea	adWriteTagForm]								
ReadEPC Read	WriteTag Configuration	Kill-Lock UHF Info	Temperature	UDP-ReceiveEPC					
Mode USB	• Close				语言 English	-			
filter									
Data:				*	b ank				_
Data.				- 0	🖲 EPC 🔿 T	ID 🔿 User	Ptr: 32	(bit) Length:0	(bit)
Read-write					BlockWrite/H				
	EPC	_				EPC		_	
Bank:		•			Bank:				
Prt:	2				Prt:	2			
Length:	6		(word)		Length:	6		(word)	
Access Pwd:	0000000				Access Pwd	: 00000000			
Data:	E2 00 00 17 01 0B 02	16 17 70 62 BB		*	Data:				0
butui				12	batar				
				Ŧ					Ŧ
	Read	Write					Erase	Write	
Set QT									
	Not reduces range	<ul> <li>private Memory</li> </ul>							
Q1.	Not reduces range	<ul> <li>private memori</li> </ul>	у шар 🔹						
	Get	Set							
L									

Pic.3-2

# Chapter 4 Lock and Kill Tag 4.1 Lock Tag

Enter access password of tag, and select options that need to be locked such as "Open", "Lock", "Permanent Open" and "Permanent Lock", then select areas, click "Confirm" to lock tag as Pic.4-1.

🚽 UHF(1.2.6) - [Kill_LockFor	rm]	
ReadEPC ReadWriteTag	g Configuration Kill-Lock UHF Info Temperature UDP-ReceiveEPC	
Mode USB	- Close	看言 English →
filter		
Data:	0	back ● EPC ○ TID ○ User Ptr: 32 (bit) Length:0 (bit)
lock		BlockPermalock
Access Pwd:	Can't use the default pass	Bank: USER -
O Open	Lock     O Permanent Open O Permanent Lock	Ptr: 0
		Access-pwd: 00000000
⊙ Kill-pwc	d O Access-pwd O EPC O TID @ USER	ReadLock: Permalock -
LockData:00-08-	02 Confirm	block-1 block-2 block-3 block-4 block-5 block-6 block-7 block-8
GB/GJB Lock		
Access Pwd:	Can't use the default password	Maskbuf:00 00 Confirm
Bank: TagInf	fo 🔹	
Config Storag	ge area property 🔹	Kill
Action: Read-	write 🔹	Access Pwd: Can't use the default password
	Confirm	kill

Pic.4-1

# 4.2 Kill Tag

Enter access password of tag and click "Kill" button to destroy tag as Pic.4-3.

UHF(1.2.6) - [Kill	[_LockForm]	
ReadEPC Read	WriteTag Configuration Kill-Lock UHF Info Temperature UDP-ReceiveEPC	
Mode USB	- Close	语言 English -
filter		
Data:	0	bunk ◎ EPC ○ TID ○ User Ptr: 32 (bit) Length: 0 (bit)
lock		BlockPermalock
Access Pw	d: Can't use the default pas	ss Bank: USER -
O Open	Lock     O Permanent Open O Permanent Lock	Ptr: 0
		Access-pwd: 00000000
© K	ill-pwd O Access-pwd O EPC O TID 💿 USER	ReadLock: Permalock -
LockDa	ta:00 08 02 Confirm	block-1 block-2 block-3 block-4 block-5 block-6 block-7 block-8
(		block=9 block=10 block=11 block=12 block=13 block=14 block=15 block=16
<b>GB/GJB Loc</b> Access Pwd:		Markbuf:00 00 Confirm
Bank:	TagInfo 🔹	
Config	Storage area property •	Kill
Action:	Read-write 👻	Access Pwd: Can't use the default password
Action.	Confirm	kill
		· · · · · · · · · · · · · · · · · · ·

Pic.4-3

#### 4.3 Filter

User could setup parameters to filter start address, data length and data for tags which locked and killed. Select EPC, TID and USER areas and setup length to 0 then clean data to disable filter.

# **Chapter 5 Setup**

Click "Configuration" on top of navigation bar to enter setup.

#### **5.1 Output Power**

Output power can be adjusted from 5-30dBm, click "Set" to confirm power point; click "Get" to get current power of module. Select "Save" to save output power in module as Pic.5-1.

UHF(1.2.6) - [ConfigForm]		-	-	-			
ReadEPC ReadWriteTag Configuration Kill-Lock	UHF Info To	emperature	UDP-ReceiveEPC				
Mode USB • Close				语言 English	-		
Power	c	Gen2				EPC And Tid	<b>^</b>
Output Power: 30	dBm	Target:	000(s0) 🗸	startQ:	•	🗢 Enable	🔘 Disable
6	Save			minQ:		Get	Set 📃 Save
Region 8		Action:	-	mins.	•	Tagfocus	
		Truncate:	•	maxQ:	-	⊂ Enable	○ Disable
Region: 10 11		Q:	•	DR:	-	Get	Set
12 13 14	Save	Miller:	•	DK:		FastID	
Protocol 15				Session:	-	O Enable	🗢 Disable 🗧
Protocol: 16		TRext:	-	Target:	-	Get	Set
18 19		sel:	•			Buzzer=	
20 RFLink 21 22		_		inkFrequency:	11(250kHz) •	O Open	○ Close
RFLink: 23			Get	Set		Get	Set
24	bSave -	ANT					ber
26	,bbave					CW	
Local IP 27 28 7D, 29				ANTA 📄 ANTS 📄 ANT ANT12 🦳 ANT13 🦳 ANT		ON	OFF
IP: 29 30							
Port:			Get	Set	Save	Res	et
		ANT : ANT:	l 🔻 workT	ime: 200	10-65535ns		
Get Set		AUGT : MAT					
Destination IP			Get	Set	Save		
**							*

Pic.5-1

# 5.2 Region

User could select UHF frequency band of multiple countries, click "Set" to confirm to setup frequency band, select "Save" to save current settings in module as Pic.5-2.

💀 UHF(1.2.6) - [ConfigForm]	1.28	
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC	
Mode USB Close	语言 English •	
Power Output Power: 30 - dBm	Gen2	EPC And Tid
Get Set Save	Target: 000(s0) - startQ: -	© Enable © Disable Get Set © Save
Region	Action: minQ: -	Tagfocus
Region: Chinal	Truncate: • maxQ: •	O Enable O Disable
Chinal China2 Europe	Q:  DR:	Get
Protocol USA Korea	Session:	FastID O Enable O Disable
Protocol: Japan New Zealand	TRext: Target: •	Get Set
Get	sel: • 011(250KHz) •	Buzzer=
RFLink RFLink:	Get Set	○ Open ○ Close Get Set
Get Set CbSave	ANT	CW Set
Local IP	ANT1 ANT2 ANT3 ANT4 ANT5 ANT6 ANT7 ANT8	ON OFF
IP:	ANT9 ANT10 ANT11 ANT12 ANT13 ANT14 ANT15 ANT16	
Port:	Get Set Save	Reset
Get Set	ANT: ANT1 • workTime: 200 10-65535ms	
	Get Set Save	
Destination IP		-

Pic.5-2

#### **5.3 Protocol**

User could select 4 protocols, click "Set" to setup protocol and click "Get" to check current protocol of module as Pic.5-3.

🖳 UHF(1.2.6) - [ConfigForm]	-	
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Inf	Temperature UDP-ReceiveEPC	
Mode USB  Close	语言 English 🗸	
Power: Output Power: 30	Gen2           Target:         000(s0)           Action:         .           Truncate:         .           Q:         .           Niller:         .           Session:         .	EPC And Tid Enable Disable Get Set Save Tagfocus Enable Disable Get Set FastID Enable Disable
Protocol: [503]8000-60 [509]8000-60 GB/T 29768 GB/T 29768 GB/T 29768 FFLink RFLink: Get Set obSave	TRext: Target: sel: IinkFrequency: 011(250KHz) - Get Set	Get Set Buxxer= Open Close Get Set
Local IP IP: Fort: Get Set Destination IP	ANT	6 Reset

Pic.5-3

## 5.4 RFLink

User could select 4 RF links, click "Set" to confirm setup RF link, click "Get" to check current RF link setup.

🖳 UHF(1.2.6) - [ConfigForm]		
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC	
Mode USB Close	语言 English •	
Power: 29 dBm Output Power: 29 dBm Get Set Save Region Region: Chinal • Get Set Vave Protocol Protocol: ISO18000-6C •	Target:       000(s0)       startQ:       .         Action:       .       minQ:       .         Truncate:       .       maxQ:       .         Q:       .       DR:       .	C And Tid Enable Disable Get Set Save stopped Set Enable Disable Get Set Enable Disable Get Set
Get Set  RFLink  RFLink:  PR.ASK/FE0/40KH2  PR.ASK/FE0/40KH2  PR.ASK/FE0/40KH2  Local IP DSE_ASK/FE0/400KH2  IP:  Port:  Get Set  Destination IP	sel: linkFrequency: 011(250KHz) - Get Set ANT ANTI ANTI ANTI ANTI ANTI ANTI ANTI ANTI Get Set Save ANT: ANTI - workTime: 200 10-66535ms Get Set Save	xxer= Open Close Get Set ON OFF Reset

Pic.5-4

#### 5.5 EPC+TID

Select "Enable" or "Disable" and click "Set" to enable or disable EPC+TID mode. Click "Get" to check current status as Pic.5-5.

🖳 UHF(1.2.6) - [ConfigForm]		
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC	
Mode USB Close	语言 English 🔹	
Power Output Power: 29	Gen2           Target:         000(s0)           Action:         minQ:           Truncate:         maxQ:           Q:	FPC And Tid Enable Disable Get Set Save Tagfocus Enable Disable Get Set
Get Set V Save	Miller:Session:	FastID ○ Enable ○ Disable ■
Protocol: ISO18000-6C - Get Set	TRext: Target: sel: linkFrequency: 011(250KHz) -	Get Set
RFLink RFLink: DSB_ASK/FM0/40KHz - Get Set cbSave	Get Set	Open Close
Local IP IP:	ANTI ANTZ ANT3 ANT4 ANT5 ANT6 ANT7 ANT8 ANT9 ANT10 ANT11 ANT12 ANT13 ANT14 ANT15 ANT16 Get Set Save	ON OFF
Get Set	ANT: ANT1 • workTime: 200 10-65535ms Get Set Save	

Pic.5-5

#### 5.6 Tag Focus

Select "Enable" or "Disable" and click "Set" to enable or disable TagFocus mode. Click "Get" to check current status as Pic.5-6.

🖳 UHF(1.2.6) - [ConfigForm]		
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC	
Mode USB Close	语言 English 🗸	
Mode USS     Loce       Power:     Output Power: 29     dBm       Get     Set     Save       Region     Region:     Chinal       Get     Set     Save       Protocol     Protocol:     ISO18000-6C       Protocol:     ISO18000-6C     Get       Set     Set     Set       KFLink     RFLink:     DSB_ASK/FN0/40KHz       Get     Set     cbSave       Local IP	Gen2     Target:     000(s0)     startQ:     Get       Action:     minQ:        Truncate:     maxQ:        Q:     DR:        Miller:     Session:        Target:         Sel:     linkFrequency:     011(250KHz) -       Get     Set        ANT     CV	Disable Set Save Disable Set Disable Set Close Set
IP: Port: Set	ANTS ANTIO ANTII ANTII ANTIS ANTIA ANTIS ANTIS Get Set Save ANT: ANTI - workTime: 200 10-65535ms Get Set Save	

Pic.5-6

#### 5.7 Fast ID

Select "Enable" or "Disable" and click "Set" to enable or disable FastID mode. Click "Get" to check current status as Pic.5-7.

🛃 UHF(1.2.6) - [ConfigForm]		
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC	
Mode USB Close	语言 English 🔹	
Pover Output Power: 29 • dBm Get Set Save Region Region: Chinal • Get Set Ø Save Protocol Protocol: IS018000-6C •	Gen2           Target:         000(s0)         startQ:         .           Action:         .         mirQ:         .           Truncate:         .         maxQ:         .           Q:         .         DR:         .           Miller:         .         .         .           TRext:         .         .         .	EPC And Tid
Get Set RFLink RFLink: DSB_ASK/FM0/40KHz • Get Set cbSave	sel:	Buzzez= Open Close Get Set
Local IP IP: , , , , , Port: Get Set	ANTI ANTZ ANTA ANTA ANTA ANTA ANTA ANTA ANTA	C ON OFF

Pic.5-7

#### 5.8 Buzzer

Select "Enable" or "Disable" and click "Set" to enable or disable buzzer. Click "Get" to check current status as Pic.5-8.

🛃 UHF(1.2.6) - [ConfigForm]	stand and a second s	
ReadEPC ReadWriteTag Configuration Kill-Lock UHF Info	Temperature UDP-ReceiveEPC	
Mode USB Close	语言 English •	
Power Output Power: 29 • dBm	Gen2 Target: 000(s0) → startQ: →	EPC And Tid
Get Set Save	Action: minQ:	Get Set Save
Region: Chinal • Get Set V Save	Q: DR:	© Enable © Disable Get Set
Protocol Protocol: IS018000-6C	Miller: • Session: •	FastID ○ Enable ○ Disable ■
Get Set	sel:	Get Set
RFLink RFLink: DSB_ASK/FM0/40KHz •	Get Set	Open Close
Get Set DoSave	ANT	
Local IP	ANTI ANTZ ANTA ANTA ANTA ANTA ANTA ANTA ANTA	ON OFF
Port:		Reset
Get Set	ANT: ANT1 - workTime: 200 10-65535ms	
Destination IP		

Pic.5-8

# 6. UHF Infor

Click "UHF Infor" on top of navigation bar to check hardware version and firmware version as Pic.6-1.

UHF(1.2.6) - [Kill ReadEPC Read		Configura	ation Kil	l-Lock U	JHF Info	Temperatur	e UDP-	ReceiveEPC						
Node USB	*	0	lose						吾言 English	•				
filter Data:								0	bank EPC	) TID () User	Ptr: 32	(bit)	Length:0	(bit)
lock Access Pwo	1:					Can't u	se the o	default pass	BlockPerr Bank :	alock USER			•	
⊙ Open ⊙ Ki	ill-pwd	<ul> <li>Lock</li> <li>Acce</li> </ul>	: ess-pwd		Perman 0 1	ent Open ( TID )	USER	Hardware versi		0 d: 00000000 Permalock			•	
LockDat	a:00 08 02		Ce	onfirm				Firmware versi	on: V6.1.6 确定				block-6 bl	
Access Pwd:						Can't use th	ne default	password	6	askbuf:00 00		Confirm		
Bank :	TagInfo							-						
Config Action:	Storage Read-wr:	area pro ite		onfirm	]	_		•	<b>Kill</b> Access F	wd:	k	111	Can't use the	: default password

Pic.6-1

# 7. Temperature

Click "Temperature" on top of navigation bar to check current temperature value of module as Pic.7-1.

🖳 UHF(1.2.6) - [Kill	_LockForm]		-	
ReadEPC Read	WriteTag Configuration Kill-Lock UHF Info Temperature	UDP-ReceiveEPC		
Mode USB	- Close	语言 Engli	ish -	
filter				
Data:			EPC O TID O User Ptr: 32 (bit)	Length:0 (bit)
lock		Bloc	kPernalock	
Access Pw	d: Can't us	e the default pass Ban	nk: USER	•
O Open	● Lock ○ Permanent Open ○	Permanent Lock Ptr	e: 0	
		Åcc	ness-nud. 0000000	
⊙ K	ill-pwd O Access-pwd O EPC O TID 💿	Temperature:30°C	rmalock	•
LockDa	a:00 08 02 Confirm		-ck=2 block=3 block=4 block=5	block-6 block-7 block-8
GB/GJB Loc	·			
Access Pwd:	Can't use the	default password	Maskbuf:00 00 Confirm	
Bank:	TagInfo	•		
Config	Storage area property	- Kill		
Action:	Read-write	- Acc	ess Pwd:	Can't use the default password
	Confirm		kill	

Pic.7-1