

MTI RU-888-0 RFID Module

User Manual Version 4.0

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WARNING : Please keep more than 20 cm away when doing the test.

1. Start Demo DW

1.1 Double click the icon as in Fig.1



Fig.1

1.2 Plug Antenna and USB cable you could see the Demo SW shown Online as in

Fig.2

Control View Help					
AS399x Reader Suite					
All Readers - MTI 00-00-00-01			_		_
Reader	Hardware	Software	Action	HB State	
🖨 🚥 MTI 00-00-001	MTI RU-888 RFID Module H/W v0.01	MTI RU-888 RFID Module F/W v0.1.05	Idle		
🗄 🕡 Reader Information					
			_		
Scan					Controll
Start Scan for 120 Seconds				0 s	Clear Tags

Fig.2

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2. Advanced Reader Setting

2.1

a X Edit View MTI Reader Suite **MICROELECTRONICS TECHNOLOGY INC.** All Readers - RU-888 00-00-00-01 Hardware Software Action HB State RU-888 00-00-00-01 MTI RU-888 dule H/W v0.02 电 Controll 📔 Clear Tags Start Scan for 120 🗢 seconds 0 s 🚞 RU-888-000 User Ma. СН 🖮 🧷 🐖 😰 🔇 🍕 🖠 式 🧶 🎽 T 🕂 12 s 😰 🛅 Der 📓 Reader Suite

Right click the MTI module and will show "Reader Setting" on screen. You

could start to set the region frequency and output power as in Fig 3.

Fig.3

Please you must set Region, Power Level, and choose Hopping in Frequency 2.2

Column when you would like to do the normal test. Press Submit to sent the parameters

「RSSI and LBT」 and 「Gen2 and press exit to leave this window as shown in Fig.4.

Setting _ Column could let you do more

The default value of sensitivity level is -84 dBm. Please shift advantage setting.

the button if you

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would	like	to	set another	value.
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🕌 Reader Suite	Advanced Reader Settings RU-888 00-00-00-01	? 🛛	
Control Edit View Help MTI Reader Suite	Advanced Reader Se	ttings	DELECTRONICS TECHNOLOGY INC.
All Readers RU-888 00-00-00-01 Reader Reader Information Reader Information Seen Seen Start Scan for 120 Seconds	Tag Mode Gen2 + RSSI Sensitivity Region Region US Power Level None Frequency Type Type Fixed Hopping W W Image: Seconds Frequency None Frequency None Frequency None Frequency None Frequency None Frequency None Miler Power Set (For Fixed Frequency Power OFF) FSSI and LBT RSSI Threshold (dBm) Listen time (ms) 1 Idle time (ms) 1 Idle time (ms) 1 Idle time (ms) 1 Idle time (ms) 1 Link frequency 160 kHz Coding Miller 2 Q_begin Submit Submit	- e2 dBm dBm dBm Pilot Tone	Action HB State de Control
😚 開始 🕤 🌀 🤨 🎽 🛅 Demo Program	🗁 RU-888-000 User Ma 👜 2010-02-06 RU-888 🛐 Reader Suite		CH 🖴 🖉 😰 💈 🔹 📢 👔 🛒 🔍 🗶 T 🕂 12.39

Fig.4

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3. Inventory Run

3.1 After setting the parameter, please press "Start Scan "to start the inventory run







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4. Advanced Tag Setting

4.1 Please right-click on the tag that you would like to change the setting as

All Readers - MTI 00-00-	-00-01				
Reader		Hardwese	Software	Action	HB State
O Reader Information Different Tags Read Count Reads per Second		9111 RU-8880 RFED Module H/W 1 445 15.614	¥0.01 MTLRU-688 RPID Mos	ule F/W v0.1.03 Idle	Clinite in
Read Count:	Advanced Tag Settings	445 [###################################			

Fig.7

4.2 You could set EPC, Password, Lock, or Kill the selected tag in this window as



Fig. 8

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4.3 Option function : Memory Bank Read/Write Function. You could read

Reserved, EPC, TID, and User Bank at Memory Column. Choose the one you would like to

know the information and press the Read Button as shown in Fig.9.

Control View Help				
MTI Reader Suite	Sen2 - Advanced Tag Settings	3		
All Readers MTI 00-00-00-01 Reeder Reeder Information ReedCount: Rest: 22-22-22-22-22-22-22-22-22-22-22-22-22	EFC: 22-22-22-22-22-22-22-22-22-22-22-22- Resderld: MII 00-00-00-01 Information Manufacturer: Alien Technology Medel Number: 0x000412 User Memory Size: - Functions Set EPC: Set Desearch Memory Size: 0 Eyles OU 01 EFC 04 05 06 07 EEC Exceeded Particular Control	Action tolle	HB State	
Scan Start Scan for 120 📚 seconds	OK		120 s	Controll



a. You could see this kind of picture as in Fig. 10 if MTI module could get complete

information from the tag.

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In Redder Suite								
All Readers - MTI 00-00-00-01	🎡 A	dvand	ced Ta	g Set	tings			
Reder Reader Information Control Control Con	EPC: Restord: Information Monther Unar Mari Set E Memory Read from 0 1 and 1 11 3 11 6 11	22- mar: maker moler mology Size. C 01 02 mar 01 02 mar 01 02 mar 01 02 mar 01 02 mar 01 02 mar 01 02 01 02 02 02 02 02 02 02 02 02 02	22-22-22-22-22- HTI 00-06 Alian Technology (0x000412 cennoy, Bask Time Tool time : 9172(m) OK 03 04 05 at at at 11 11 13 11 11 13 11 11 13 11 11 13 Thaveout: 00-00- K ==	2: 22: 22: 22: 22: 22: 22: 22: 22: 22:	ZZ Rafnik) XP Common XP Common S Read Sat	Acton file	IB Date	



b. You could see this kind of picture as in Fig. 11 if MTI module couldn't get

complete information	on from the tag	
Control View Help		
Control View Help MTI Reader Suite All Readers MTI 00-00-00-01 Reader MTI 00-00-00-01 Reader Information Read Count: Rest: 22-22-22-22-22-22-22-22-22-22-22-22-22-	Constraint Constraint EPC: 22-22-22-22-22-22-22-22-22-22-22-22-22-	
	Functions Read Memory Bank Time Kill NXP Command Set EPC Image: Set IP38(ms) Image: Set IP38(ms) Image: Set IP38(ms) Memory OK I2 Bytes Image: Set IP38(ms) Image: Set IP38(ms) Memory OK I2 Bytes Image: Set IP38(ms) Image: Set IP38(ms) Memory OK I2 Bytes Image: Set IP38(ms) Image: Set IP38(ms) I as	
	OK	
Start Scan for 120 Seconds		r Tags

Fig. 11

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4.4 Please read user bank if you would like to write any information into user bank.

Write the information into the byte you would like to modify and press Set button as shown in

MTI Reader Suite	Gen2 - Ad	vanied Tag S	ettings								2	×				
All Readers = MTL00-00-00-01	-	A	dvi	an	ce	d	Ta	g :	Se	tt	ing	5				
Reader	_	ERC.		22	22.22	22.22			2.22.2	2.22		Action		HB	Ziele	
S 000 MTI 00-00-00-01		End Sol		11	11 11					1.11		Idle			No.	
P Reader Information Proder Information Prod Court: Read Court: RSt: Prod Court: RSt: Read Court: RSt:		Reasons Information Meanufact Model Ne User Mean Functions Set El Meanory	n uner unber nory Size	Set Paces	Alien 1 050000 -	echaolo 112 Loc	10-00-		a	NXPO	(Refresh) Command)					
		Read from	Bask	User	~	Mem	ory Size:	64	Bytes							
		00	01	02	03	04	05	05	07		Read					
		1 99	99	99	99	99	99	99	99		2.4					
		2 99	11	11	11	11	11	11	11							
		3 11	11	11	11	11	11	11	11							
		4 11	11	11	11		11	11	11	51						
		6 11	11	11	11	11	11	11	11				_			
				Accem	Panwor	t: [00-00-0	0.00								
		Read	64 Byt	es - 0	ж						L					
June .										F	OF				_	

Fig. 12 GUI would shown pass message as shown in

MTI Reader Suite	Gen2 - Advanced Tag	Settings	2.8	1	
All Readers - MTI 00-00-00-01	- 🎡 🔺	dvanced Ta	ng Settings	-	
Reader	EPC:	22-22-22-22-22-22-22-22-22-22-22-22-22-	22-22-22-22-22-22	Action HB	Zinte
	Latoma Modell User M Franction Ent Memory Read 17 99 2 99 2 11 4 11 5 11 6 11 5 11 6 11 1 11 1 1 12 1 13 1 13 1 13 1 13 1 13	Alian Technology Churker: Alian Technology Churker: Churker: Churker: Churker: Churker: Churker: Churker: Churker: Churke	Refresh Kall WXP Command 64 Dyter Barlow 5 66 Dyter 11 11		



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Federal Communication Commission Interference Statement

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 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE: FCC Radiation

Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled

environment. This equipment should be installed and operated with minimum distance 20cm

between the radiator & your body. This transmitter must not be co-located or operating in

conjunction with any other antenna or transmitter.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following" Contains TX FCC ID: MAD-RU-888-0 ". The FCC part 15.19 statement below has to also be available on the label: This device complies with Part 15 of 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.

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