RR9000 Demo program user guide

Testing Environments

Support 15693 series reader/writer under Windows 98, 2000 & XP operation system.

Basic operation

- 1. Make sure the reader is installed propertly before run the demo program
- 2. run the demo program found in the CD
- CD directory \demo_program\ RR9000_MUL_DEMO_en.exe
- 3. select from menu , click on "open COMPort" to establish the connection automatically, reader information will show as Fig.1 area "8"
- 4. place the Tagi-it ISO card on the RR9036
- 5. click on "Inventory" button , the ID number will show on fig.1 area "19"
- click on the down arrow on the operation mode to select the ID and click on the "getsysteminformation", the tag information will show on fig 1 area "10".

Tag-it memory config : writing type "A" , max block : "0-63" , block size "4"

- click into the memory organization table to select a block to be read/written to
- 8. select the block no (0-63) then read or write the data from/to the tag

Remake :

After inventory process, the identified tags are switched to a Quite state.

Therefore, the RF field is reset automatically before each inventory process so that the tags are identified continuously.

Below are two methods to send the "Inventory" command for the same Tag.

[1] click on "close RF" \rightarrow "open RF" \rightarrow "Inventory", before you click on the "Inventory" command for the same tag

[2] take the tag away from the RF field , then place it on the RR9036 again so that the reader can active the tag again. Then Click on "Inventroy"

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Command Test Mode 20	
Communication COM Port: AUTO Reader Address: FF Open COMPort Close COMPort Close COMPort Close COMPort Close COMPort Operation Mode Operation Mode	rInfo 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Power Management Tag Information	Inventory (Multiple Tags)
Open RF 1413C94D8A8107E0 00 00 3F03 8B GetSystemInformation	1 Q New Inventory
Close RF INDD=4113C94D8A8107E0 DSFID=0x00 AFI=0x00 MemorySize=0x3F03 ICReference=0x8B	Consecutive Inventory
Change Reader Address BLock Operation Tag Writing Type: A V Max Block: 63 V Block Size: 4	New Inventory (AFI)
Change BLock: ReadSingleBlock	Townstory DSEID-HID List
General Output State Lock Block WriteSingleBlock	004113C94D8A8107E0
Output2 Output1 www.low w Low w From Block: To Block: ReadMultipleBlock	00221AA5E5888007E0 00541CBC02000104E0 003517BC02000104E0
Set AFI (HEX) General Input State DEFEND (MEX)	00671DASB5888007E0 00581DBC02000104E0 00AB29BC02000104E0 004C28C94D8A8107E0 003D06BC02000104E0
Get 1300 WriteDSFID LockDSFID	00CE2ABC02000104E0 001621A5B5888007E0 005618BC02000104E0
Relay State Active Set 14 StayQuiet Select ResetToReady	007629BC02000104E0 00552ABC02000104E0 006728BC02000104E0 008828BC02000104E0 006812BC02000104E0
Get ANT Status Get Get IS ANTI C ANTE C ANTE C ANTA Set Active ANT	
22:03:08 ×GetSystemInformation§ successfully COM1 ManufacturerLI Texas Instruments BlockSize	14 Block Range(0-65 Writing Type(A)

Fig 1 – demo program menu.

- 1. communication : open/close com port
- 2. Power management : switch the RF field off /on
- 3. change reader address : hex address 00-FE
- 4. Output state control (for 15693-RW-232-1W & 15693-RW-232-4W version only)
- 5. Input state control (for 15693-RW-232-1W & 15693-RW-232-4W version only)
- 6. Relay state control (for 15693-RW-232-1W & 15693-RW-232-4W version only)
- 7. Get antenna status (for 15693-RW-232-4W multi antenna version only)
- 8. reader information : show reader information after Reader connected with PC correctly
- 9. operation mode : address mode , selected mode & non-address mode (refer to Tag-it datasheet)
- 10. Tag information : show tag information after click on the "getsysteminformation"
- 11. Block operation : click into the memory organization table to select a block to be read / written to (Tag-it memory–Tag writing type: A/Max block: 0-63: Block size : 4
- 12. to 14. other implemented Tag-it commands as follow can be used according to their function defined in datasheet : reset to ready / stay quiet / Quite storage
 - : AFI (application family Identifier) read/write function
 - : DSFID (data storage format Identifier) read/write function
- 15. set active antenna : (for 15693-RW-232-4W multi antenna version only)
- 16. max Inventory scan Time : set the scan time for inventory command

17. Inventory : read DSFID-UID number

- 18. Inventory Multiple tags : (for 15693-RW-232-1W & 15693-RW-232-4W version only)
- 19. Inventory DSFID-UID list : message window to show the DSFID-UID data
- 20. Test mode : (for 15693-RW-232-1W & 15693-RW-232-4W version only)

Press "start" to read multi tags at the same time as follow menu .

Command Test Mode					
lumber	Manufacturer	UID	DSFID		
	Texas Instruments	401DC94D8A8107E0	00		
	Texas Instruments	4127C94D8A8107E0	00		
	Texas Instruments	4207C94D8A8107E0	00		
	Texas Instruments	4308C94D8A8107E0	00		
	Texas Instruments	4650C94D8A8107E0	00		
	Texas Instruments	471AC94D8A8107E0	00		
	Texas Instruments	4937C94D8A8107E0	00		
	Texas Instruments	4B12C94D8A8107E0	00		
	Texas Instruments	5D6EC94D8A8107E0	00		
)	Texas Instruments	5E65C94D8A8107E0	00		
1	Texas Instruments	5F74C94D8A8107E0	00		
2	Texas Instruments	4A17C94D8A8107E0	00		
3	Texas Instruments	5A4FC94D8A8107E0	00		
4	Texas Instruments	4510C94D8A8107E0	00		
	Texas Instruments	4522C94D8A8107E0	00		
	Texas Instruments	451CC94D8A8107E0	00		
r	Teves Instruments	4418C94D848107E0	00		
3	Texas Instruments	4419094084810780	00		
, A	Texas Instruments	4314C94D848107E0	00		
, 1	Tayos Instruments	4939094084810780	00		
	Tayos Instruments	4816094084810780	00		
,	Tayor Instruments	4010094084810780	00		
3	Tayor Instruments	4114C94D848107F0	00		
í	Toyon Instruments	4120094084810780	00		
•	Texas filstruments	4120034008010120	00		
	Start Stop				

Test Mode Menu