

# MTI RU00-M03-X RFID HP-SiP Module OEM Configuration Guide Version 1.0

#### **MTI Group Proprietary Information**

Any unauthorized use, duplication, reproduction, reverse engineering, decompilation, or disclosure of this document may be considered as infringement of MTI Group's intellectual property rights, the infringer may be accused and liable applicable legal penalties.

Copyright, Microelectronics Technology Inc.. All rights reserved.

## **Contents**

1	OEM (	Configuration Area Usage	4
		Introduction	
	1.2	Command	4
	1 3	OEM Configuration Area	5

## **Revision History**

Version Number	Description	Revision Date
0.1	First release of document.	November
	The revision is used on firmware version 0.7.0.	2014
0.2	(1) Fix a typo of supporting F/W Ver. For PROD_NAME.	March
	The revision is used on firmware version 0.7.0 or later.	2015
1.0	(1) Modify version number of this document to 1.0.	October
	The revision is used on firmware version 0.7.0 or later.	2015

## 1 OEM Configuration Area Usage

#### 1.1 Introduction

The MTI RU00-M03-X RFID Module OEM Configuration Guide provides detailed information for configuring the HP-SiP module through OEM configuration area.

The HP-SiP module provides an OEM configuration area to configure operation. The values in this area are read and written using the commands.

Data in the OEM configuration area is accessed on a word by word basis. An OEM configuration "WORD" is 32 bits, little endian. Some words may encode several values at the bit or byte level - the description will indicate what these are.

**ATTENTION:** The OEM configuration area has been programmed at manufacturing time. This documentation only provides necessary OEMCfg address for customer. DO NOT change other addresses that are not listed.

#### 1.2 Command

Use two commands below to access OEM configuration area of HP-SiP module.

- RFID MacReadOemData
- RFID\_MacWriteOemData

Refer to the MTI RU00-M03-X RFID Module Command Reference Manual document for detailed usage of command.

### 1.3 OEM Configuration Area

Word Address	Word Length	Name	Description		F/W Ver.	
0×0000000A	1	MAIN_MODEL_NAME	This field is read only. Indicated main model name with RU00-abc-defg. RU00-abc-d: main model name.			
			Bit	Use		
			7:0	Fourth number.(d) Number type is ASCII code.		
			15:8	Third number.(c) Number type is ASCII code.		
			23:16	Second number.(b) Number type is ASCII code.		
			31:24	First number.(a) Number type is ASCII code.		
0x0000000B	1	SUB_MODEL_NAME	Indicated	is read only. I sub model name with RU00-abc-defg. model name.	0.7.0	
			Bit	Use		
			7:0	Third number.(g) Number type is ASCII code.		
			15:8	Second number.(f) Number type is ASCII code.		
			23:16	First number.(e) Number type is ASCII code.		
			31:24	The field is Reserved as zero.	0.7.0	
0x000000C			This field is read only. Indicated version number of OEMCfg information.			
			Bit	Use		
			7:0	Unit digit minor version number. Number type is ASCII code.		
			15:8	Ten digit minor version number. Number type is ASCII code.		
			23:16	Major version number. Number type is ASCII code.		
			31:24	The field is Reserved as zero.		
0x000000F	1	MFG_NAME_HEADER		is read only. d manufacturer name header.	0.7.0	
			Bit	Use		
			7:0	This is the total length of the name string, including this byte. The total number of characters is Length field - 2.		
			15:8	Constant value indicating a name string descriptor. This is always = 0x03.		
			23:16	First half of first Unicode character.		
			31:24	Second half of first Unicode character. Always 0.		
0x0000010	39	MFG_NAME		is read only. d manufacturer name.	0.7.0	

			Bit	Use		
			7:0	First half of N+1 Unicode character.		
			15:8	Second half of N+1 Unicode character. Always 0.		
			23:16	First half of N+2 Unicode character.		
			31:24	Second half of N+2 Unicode character. Always 0.		
0x00000037	1	PROD_NAME_HEADER	This field Described	0.7.0		
			Bit	Use		
			7:0	This is the total length of the name string, including this byte. The total number of characters is Length field - 2.		
			15:8	Constant value indicating a name string descriptor. This is always = 0x03.		
			23:16	First half of first Unicode character.		
			31:24	Second half of first Unicode character. Always 0.		
0x00000038	39	PROD_NAME		is read only. d product name.	0.7.0	
			Bit	Use		
			7:0	First half of N+1 Unicode character.		
			15:8	Second half of N+1 Unicode character. Always 0.		
			23:16	First half of N+2 Unicode character.		
			31:24	Second half of N+2 Unicode character. Always 0.		
0x0000005F	1	SERIAL_NUM_HEADER	This field is read only. Described serial number header.		0.7.0	
			Bit	Use		
			7:0	This is the total length of the name string, including this byte. The total number of characters is Length field - 2.		
			15:8	Constant value indicating a name string descriptor. This is always = 0x03.		
			23:16	First half of first Unicode character.		
			31:24	Second half of first Unicode character. Always 0.		
0x00000060	39	39 SERIAL_NUM		is read only. d serial number.	0.7.0	
			Bit	Use		
			7:0	First half of N+1 Unicode character.		
			15:8	Second half of N+1 Unicode character. Always 0.		
			23:16	First half of N+2 Unicode character.		
			31:24	Second half of N+2 Unicode character. Always 0.		
0x000000A4	1	BAUD_RATE	Selected	baud rate of the host UART interface and	0.7.0	

6

			desired in bps.  0x0001C200 = 115200 bps  0x00038400 = 230400 bps  0x00070800 = 460800 bps  0x000E1000 = 921600 bps  The setting value which do not belong these four baud rates will set the baud rate to 115200 which is the default of the HP-SiP module.		
0x00001B01	1	DEVICE_ID	Used command to control the HP-SiP module with device ID. Factory default device ID number is 0. General device ID number is 255 for broadcasting.  Range of device ID number is 0 to 255.		
0x000022CF	1	CUST_COUNTRY_NAME	Described the information of custom country name.  DO NOT modify this field.  Bit Use		0.7.0
			7:0	First character.	
			15:8	Second character.	
			23:16	Third character.	
			31:24	Fourth character.	