



Light TAT Tool User Manual

WISMO218 Wireless Standard MOdem

WA_DEV_W218_UGD_007
002
September 29, 2009

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

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Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless modems may be used at this time.

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Consult our website for up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases:

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Document History

Version	Date	Updates
001	March 20, 2009	Creation
002	September 29, 2009	Updated

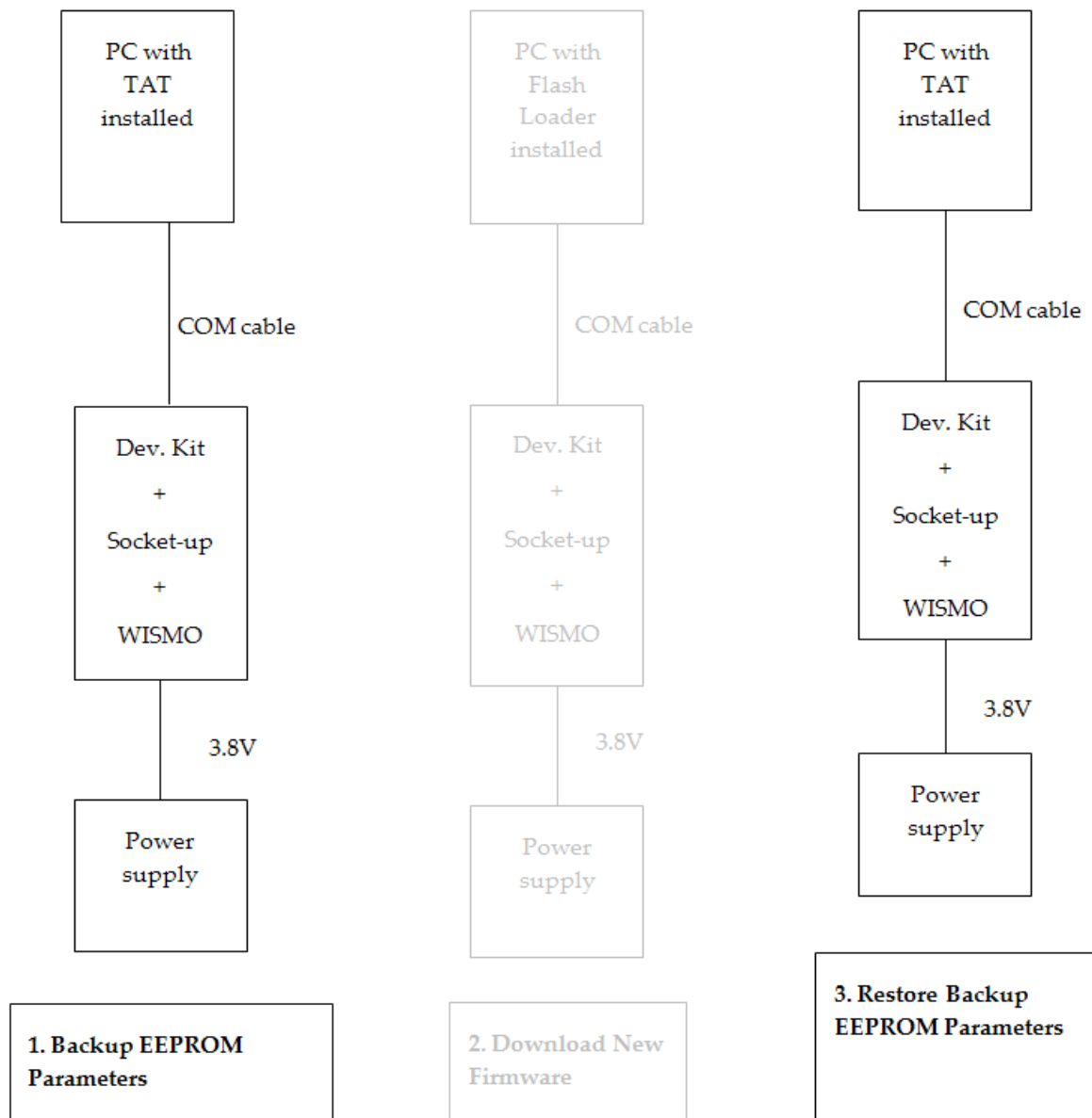
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>> 1. Introduction

This document provides instructions on using the Light TAT Tool to save and restore specific EEPROM data information. Even when a new firmware has been downloaded with the “COMPLETE” option, all the pre-defined data such as calibrated data can be restored.

For Firmware download procedures, refer to the WISMO Firmware Download Manual (WA_DEV_W218_UGD_006).



Software Version

- Light TAT Tool – MSVS_Engine Version 1.0

Hardware

- Module
- Socket-Up
- WISMO Development Kit

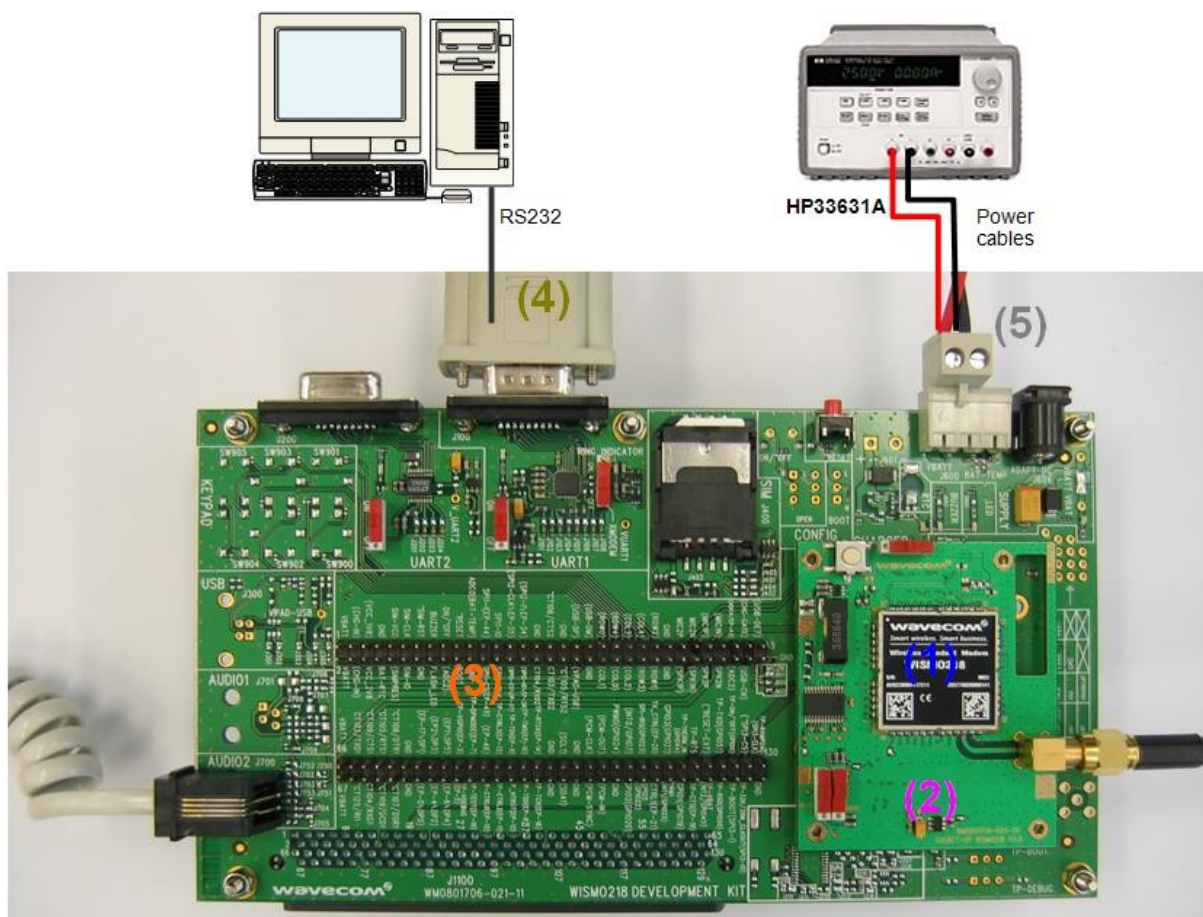
2. Equipment List

- 1 x Power supply Agilent 66309B or equivalent
- 1 x WISMO development kit
- 1 x Module
- 1 x Socket-Up
- 1 x PC DB-9 COM cable
- 1 x Power cable for WISMO development kit
- 1 x PC RS232 COM cable
- 1 x PC computer

3. Hardware Setup

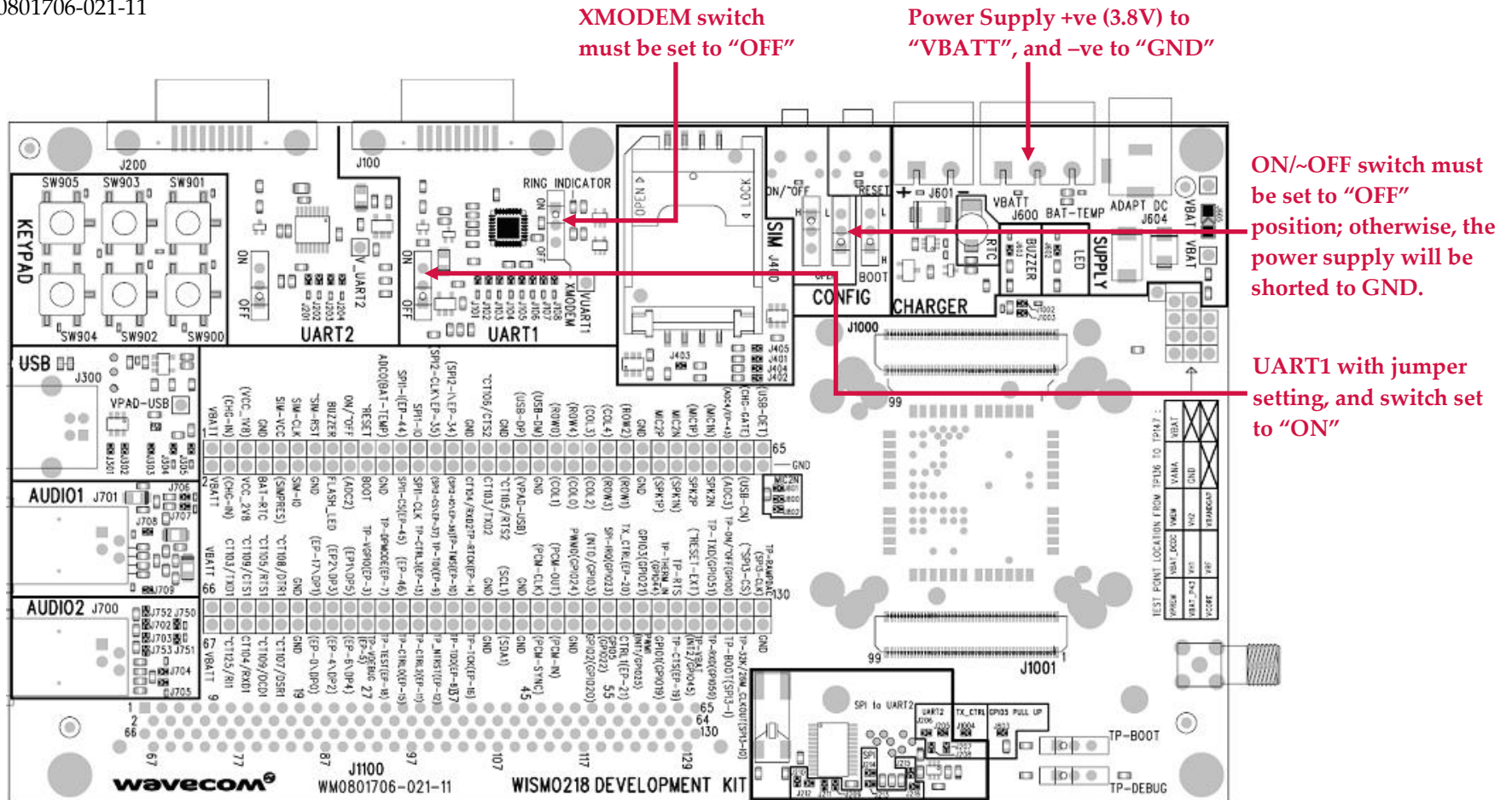
Installation of Module on the WISMO Dev Kit and Socket-up

Module (1) should be plugged onto the socket-up (2) board, which is connected to the WISMO development kit (3). The DB-9 COM cable needs to be connected to UART1 (4) and the Power cable for the WISMO development kit needs to be connected to the power jack (5).



Setting on WISMO Dev Kit

PCB P/N: WM0801706-021-11

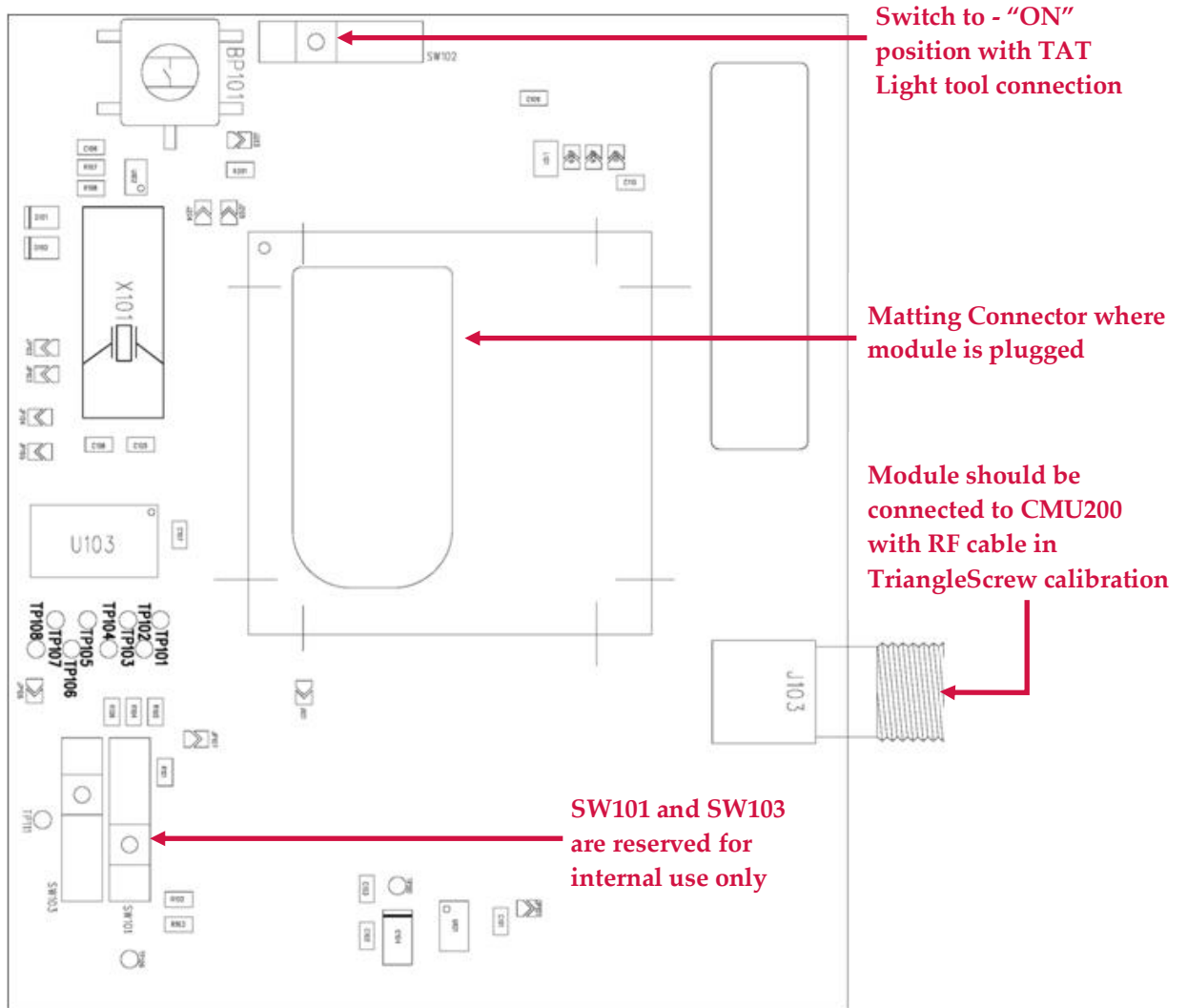


There are 5 Slide Switches on the WISMO Dev Kit. They should be correctly set before the module can work properly.

Function	Switch Position	Remark
UART1	ON	
XMODEM	OFF	
ON/~OFF	OFF	Caution: <i>If set to ON, the power supply will be shorted to GND.</i>
BOOT	Don't Care	The WISMO Dev Kit BOOT signal is not connected to the module, as there is no BOOT on the module system connector.

Module Socket-up Setting

PCB P/N : WM0801706-020-20



Note: Depending on the Module type and Socket-up board, the position of the switch will be different. The hardware setup user guide is required for reference.

4. TAT Light Tool

Installing Light TAT Tool

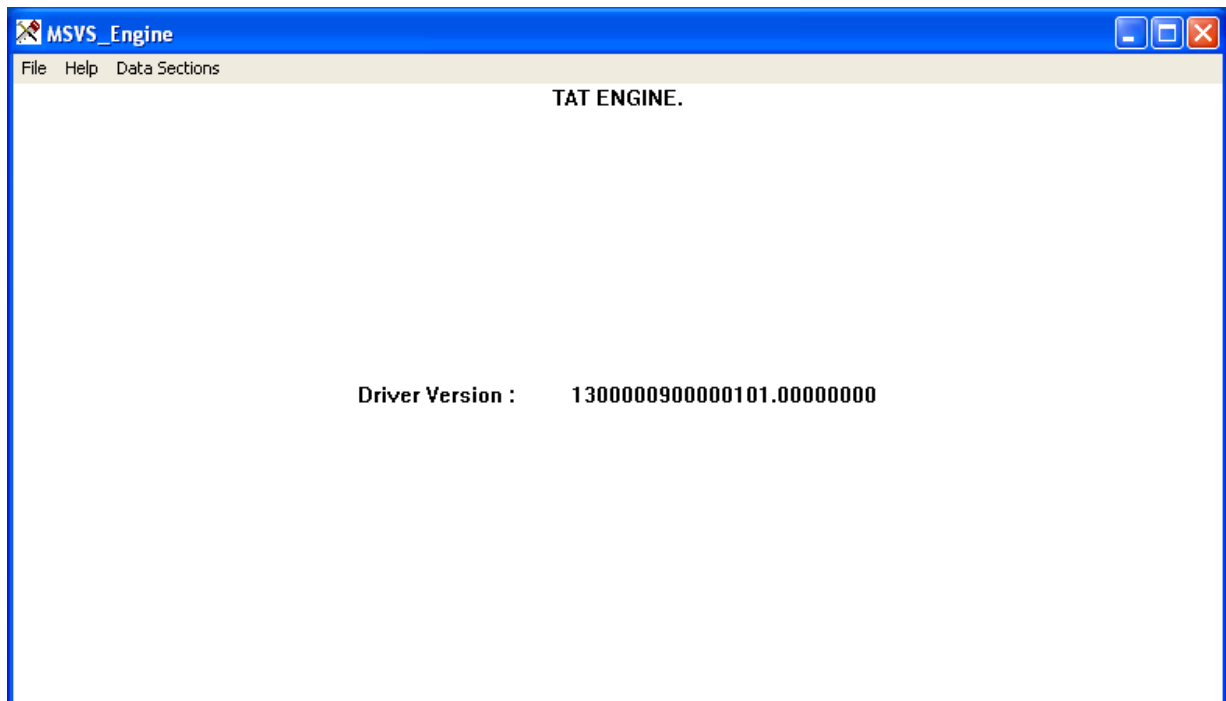
1. Double click on the TAT Light Tool application (TAT Light Tool.exe)
2. Application self-extracts the program into C:\TAT Light Tool\

Starting TAT Light Tool

1. Setup the module system as shown in Section 3.1 with the power up and connected to the PC.

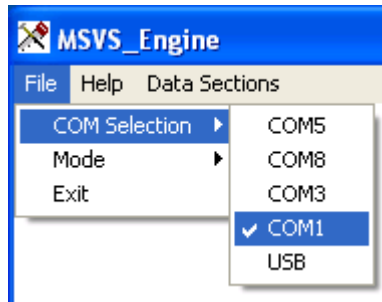
Note: Be sure the switch is in the "ON" position. Refer to section 3.3 Module Socket-up Setting.

2. From folder C:\TAT Light Tool\TAT 1.1\, double-click the filename uiengine.exe. Then, the user interface will pop up as shown below.

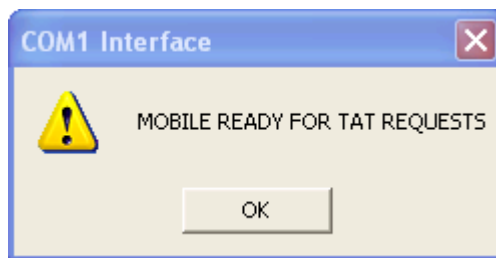


Connecting the TAT Light Tool to the Module

1. From the File menu and COM Selection, select the com port that is connected with UART1.



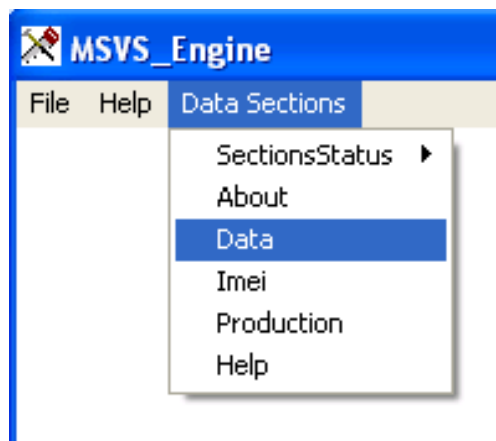
2. If the connection is made, a successful message will pop up.



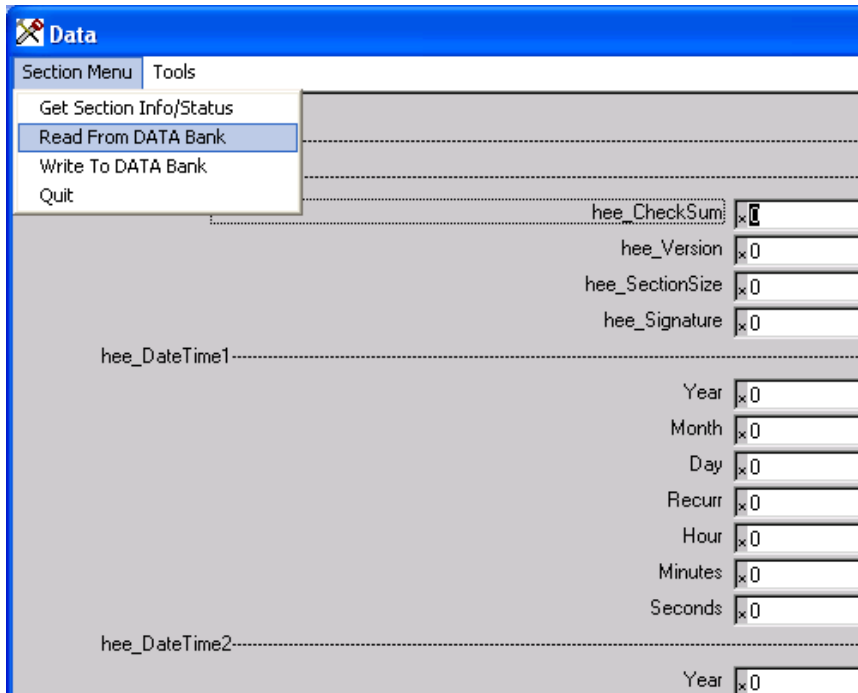
3. If not successful, please check the com port connection, repeat [Step 1](#) or even start section [4.2](#) and [4.3](#) all over again.

Backing up EEPROM Data

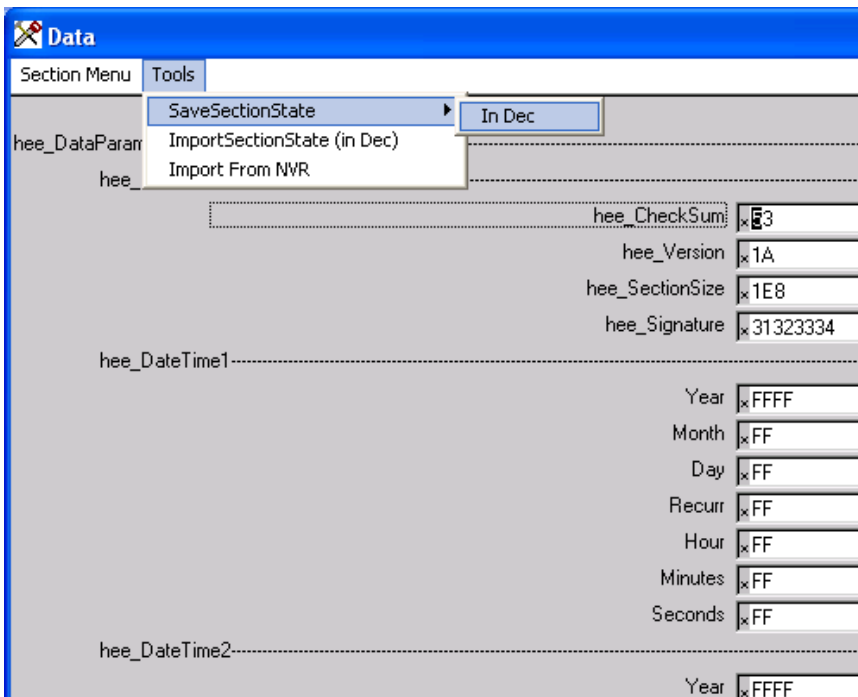
1. From "Data Sections", select "Data" option to open "Data Section" information.



- On the new pop up “Data” interface, select “Read From Data Bank” from “Section Menu” to retrieve information inside the EEPROM.



- From “Tools”, select “SaveSectionState” -> “In Dec” to save all Data Section information.



- Click OK on the pop up message dialog box and quit this “Data” interface.
- Repeat steps 1, 2, 3 and 4 to save “Imei” and “Production” information.
- The information should be saved under C:\TAT Light Tool\TAT 1.1\

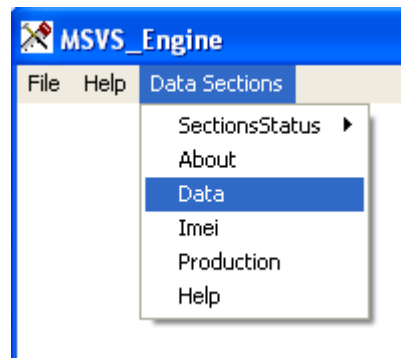
Section Name	File Storage Name
Data	DataDec.txt
Imei	ImeiDec.txt
Production	ProductionDec.txt

Note: It is recommended to create a folder for each module and to store its own data files.

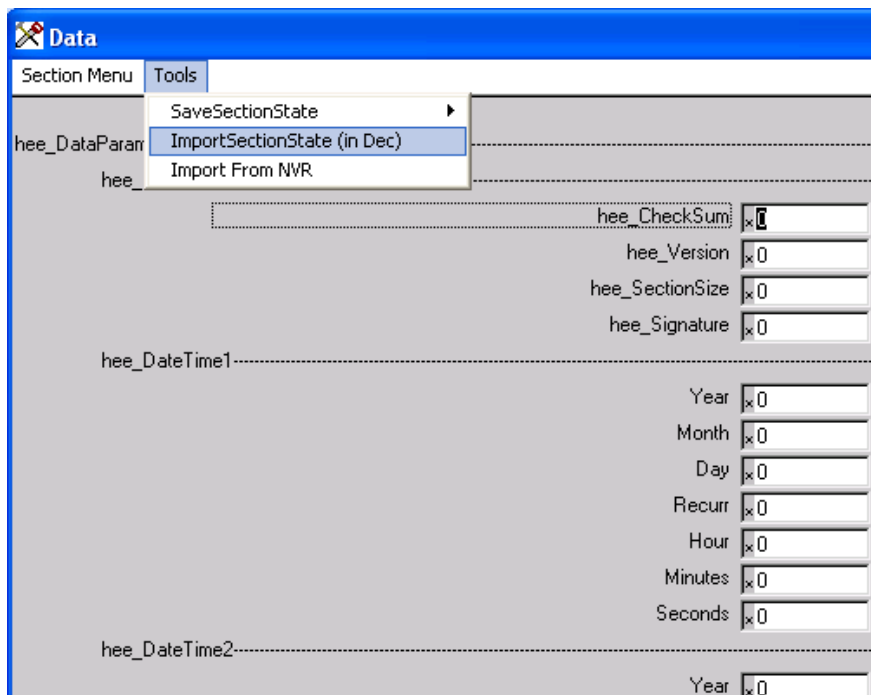
- Exit Light TAT tool.

Restoring Backup EEPROM Data

- Connect Light TAT tool with the module as indicated in Section 4.3
- From “Data Sections”, select “Data” option to open “Data Section” information.



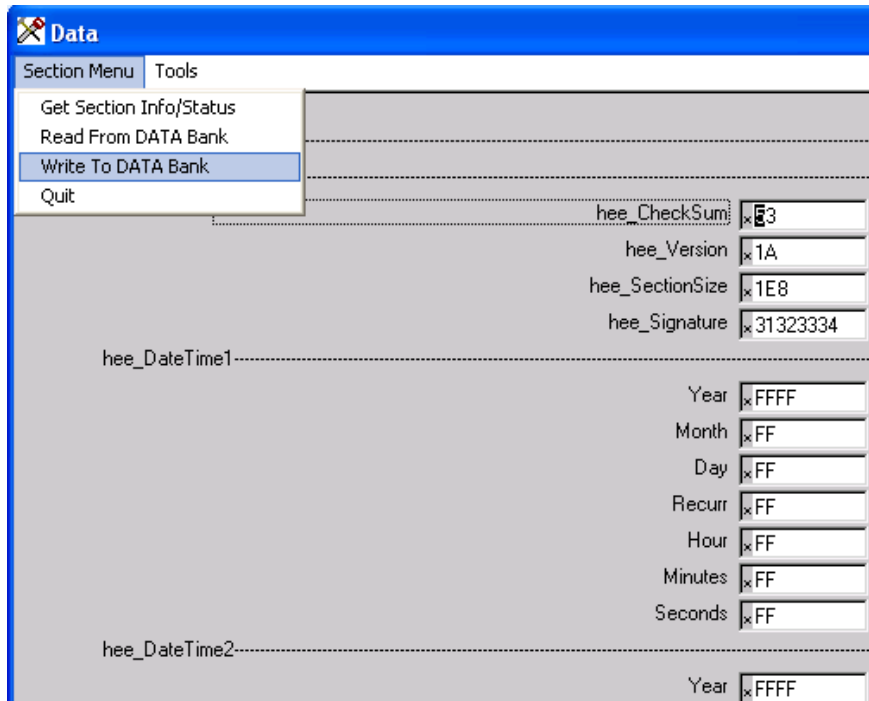
- From “Tools”, select “ImportSectionState (in Dec)” to restore “Data Section” information.



- Depending on the option from “Data Sections”, select the right file from the saved folder.

Section Name	File Storage Name
Data	DataDec.txt
Imei	ImeiDec.txt
Production	ProductionDec.txt

- From “Section Menu”, select “Write To Data Bank” to restore backup data into the EEPROM.



- Quit this “Data” interface.
- Repeat steps 2, 3, 4, 5 and 6 to restore “Imei” and “Production” backup data.

