



Firmware Download Manual

WISMO Wireless Standard M0dem

WA_DEV_W218_UGD_006
002
September 11, 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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Do not operate the Sierra Wireless modem in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, near life support equipment, or any equipment which may be susceptible to any form of radio interference. In such areas, the Sierra Wireless modem **MUST BE POWERED OFF**. The Sierra Wireless modem can transmit signals that could interfere with this equipment. Do not operate the Sierra Wireless modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless modem **MUST BE POWERED OFF**. When operating, the Sierra Wireless modem can transmit signals that could interfere with various onboard systems.

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.

The driver or operator of any vehicle should not operate the Sierra Wireless modem while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

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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

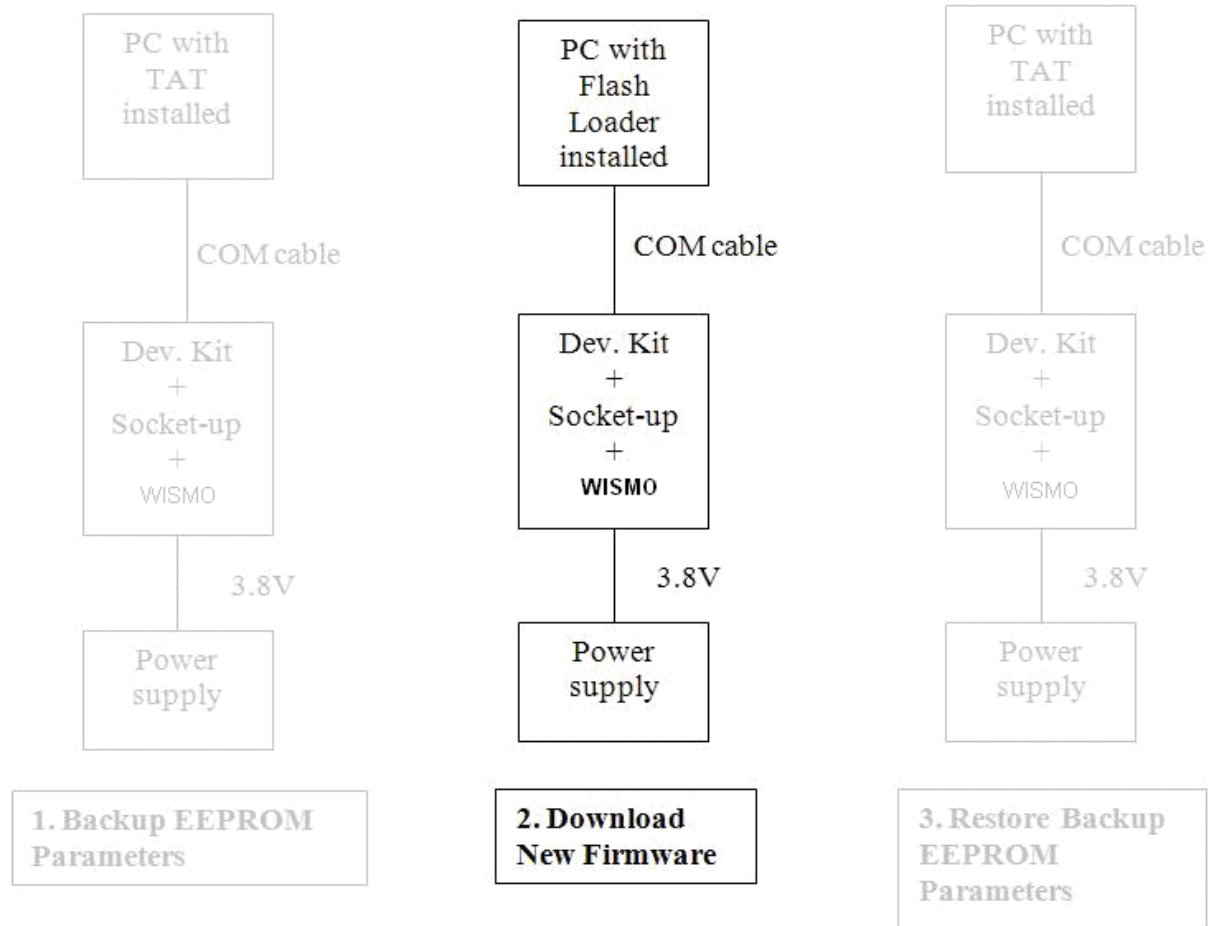
Version	Date	Updates
001	March 2, 2009	Creation
002	September 11, 2009	Updated and simplified the manual

>> Contents

1. INTRODUCTION	6
Software Version	7
Hardware.....	7
2. EQUIPMENT PREPARATION.....	8
Hardware.....	8
3. HARDWARE SETUP	9
Installation of Module on WISMO Dev Kit and Socket-up.....	9
Setting on WISMO Development Kit	10
WISMO Socket-up Setting	12
4. DOWNLOADER SELECTION.....	13
Application Size.....	13
Complete.....	13
Customer.....	13

>> 1. Introduction

This document gives instructions on how to use Flash Loader to download Firmware onto the module. There are three (3) Download / Erase options (Complete, Application size, and Customer).



Software Version

- Flash loader 5.3.3.3 / Adwl-Light Downloader 5.3.3.3a
- Loader file – Numonyx_32_Binary.hex
- Application file provided by Sierra Wireless

Hardware

- Module
- Socket-Up
- WISMO Development Kit

»» | 2. Equipment Preparation

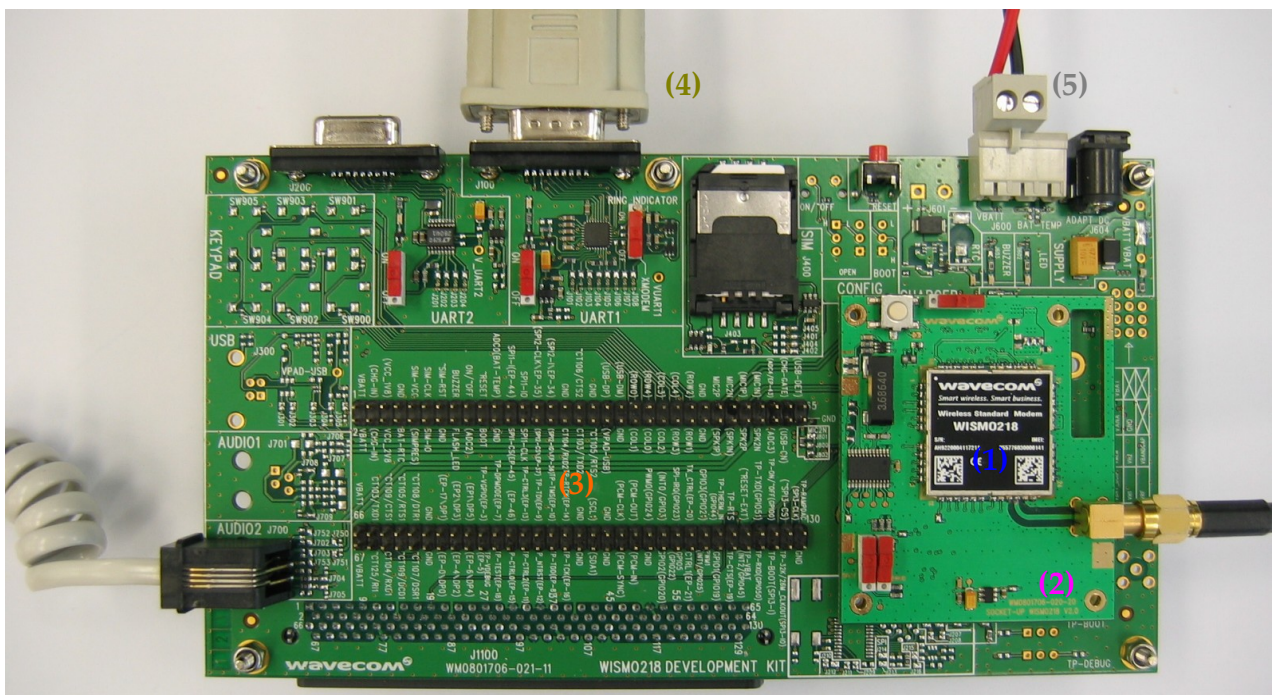
Hardware

- 1 x Power Supply Agilent E3631A or equivalent
- 1 x WISMO Development Kit
- 1 x Module
- 1 x Socket Up
- 1 x Power cable for WISMO Development Kit
- 1 x PC RS232 COM cable
- 1 x PC computer

3. Hardware Setup

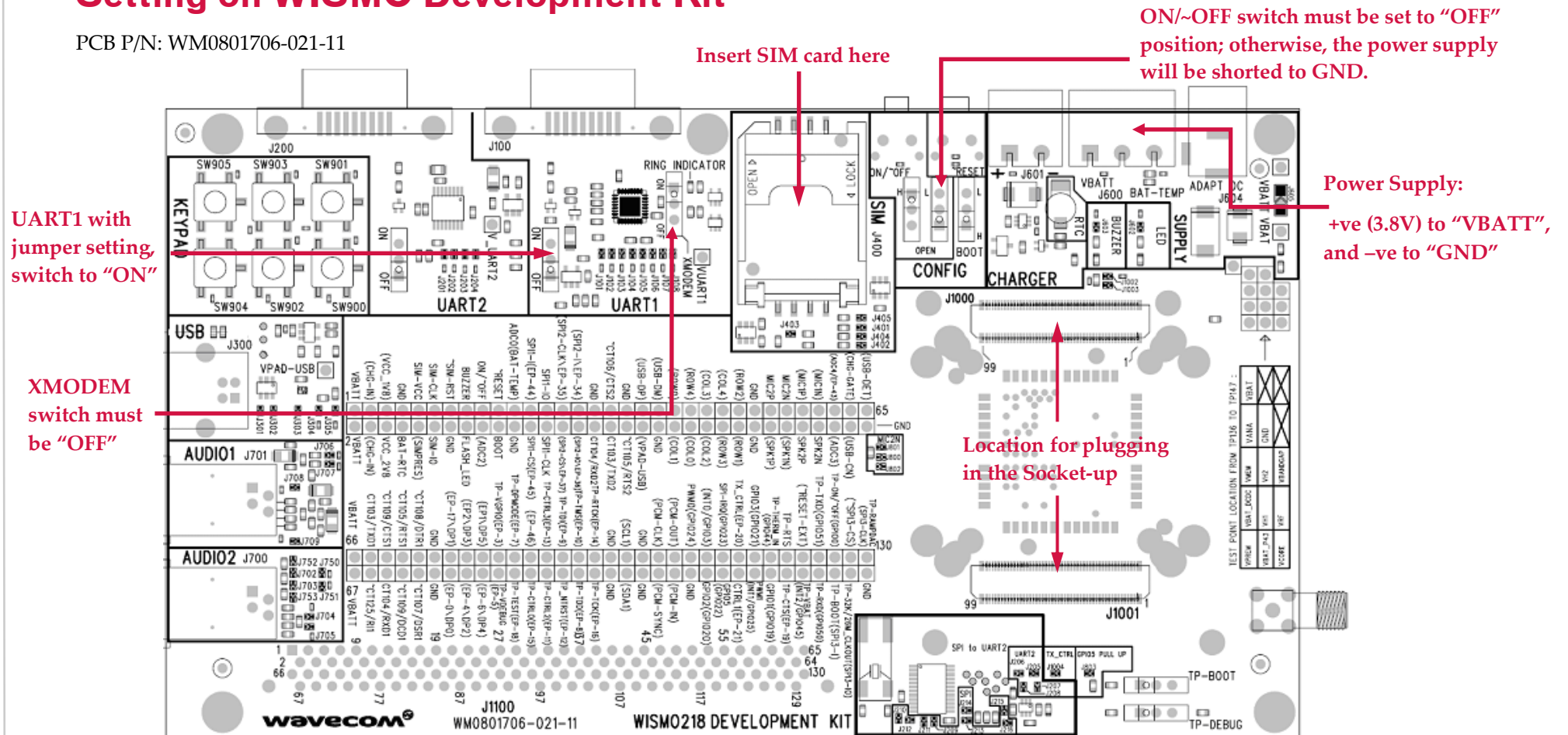
Installation of Module on WISMO Dev Kit and Socket-up

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 Development Kit

PCB P/N: WM0801706-021-11

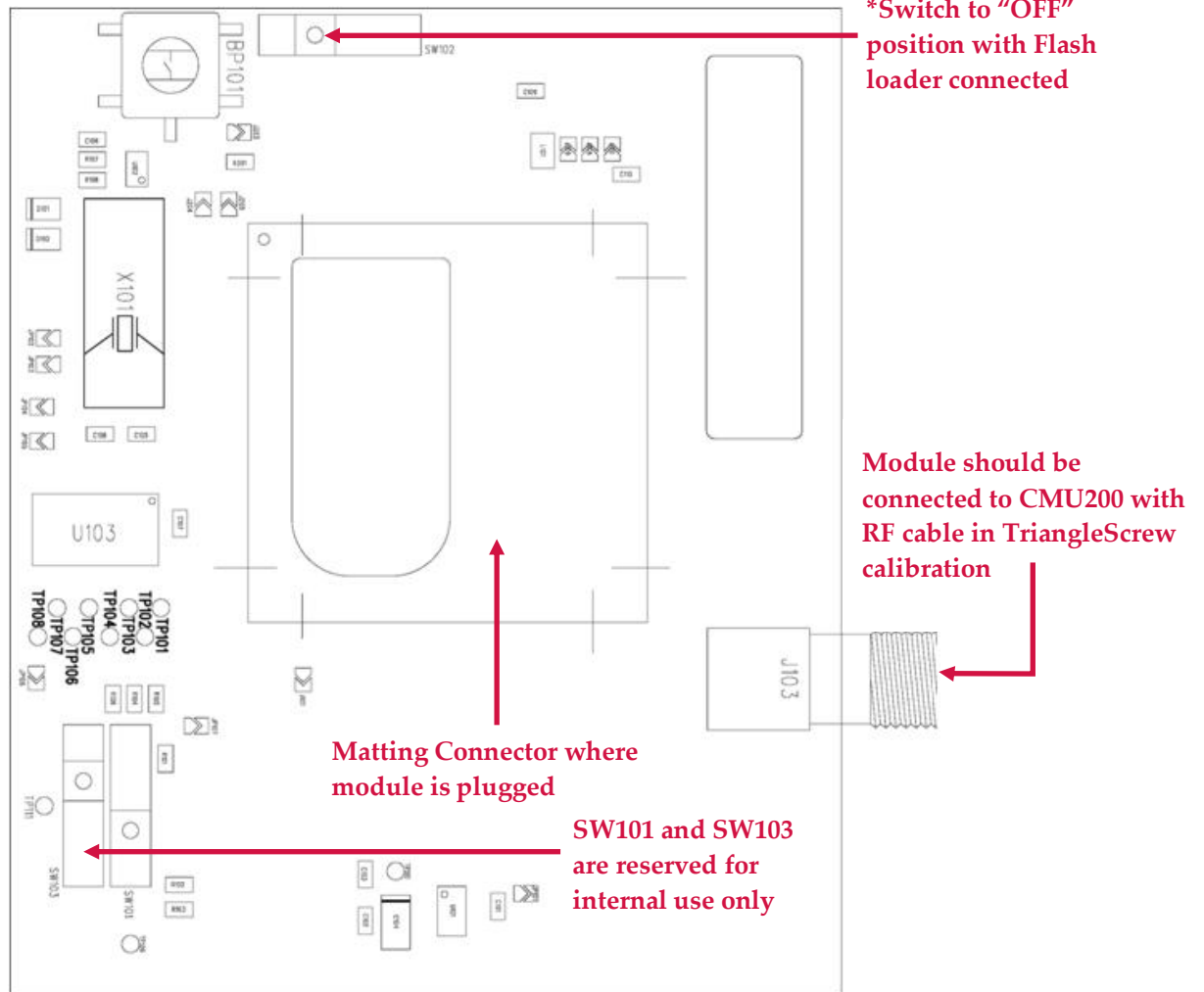


There are 5 Slide Switch on the WISMO Dev Kit. They should be correctly set before module can work properly.

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	WISMO Dev Kit BOOT signal is not connected to the module, as there is no BOOT on the module system connector.

WISMO 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. Downloader Selection

Depending on the downloading option, different Downloaders will be required.

Application Size

Adwl-Light Downloader (5.3.3.3a) is used. This downloader will only download the required size of firmware and keep all existing EEPROM data such as calibrated data.

For download procedures, refer to the Adwl-Light Downloader User Guide (WA_DEV_WISMO_UGD_005).

Complete

Flash Loader (5.3.3.3) is used. This downloader allows selecting the option “Complete” to erase all content in the flash before downloading the firmware with all default EEPROM values. With this option, all the EEPROM data such as calibrated data need to be saved and restored after the firmware is downloaded; otherwise, default data will be replaced.

For saving and restoring those EEPROM data, refer to the Light TAT Tool User Manual (WA_DEV_W218_UGD_007).

The downloading setting and procedures are similar as Application Size and please refer to required document.

Customer

It is not recommended to use this option to download firmware.



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