



A7682E_TEKIT_ User Guide

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SCOPE

THIS DOCUMENT DESCRIBES HOW TO TEST WITH A7682E_TE. WITH THIS DOCUMENT, USER CAN GET USEFUL INFO ABOUT OUR SIMCOM-EVB QUICKLY.

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NOTE

For testing, customers needs SIMCOM_EVB and TE KIT at the same time.
Therefore, customers should refer this document together with the SIMCOM_EVB KIT User Guide

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1. Detail description of A7682E_TE

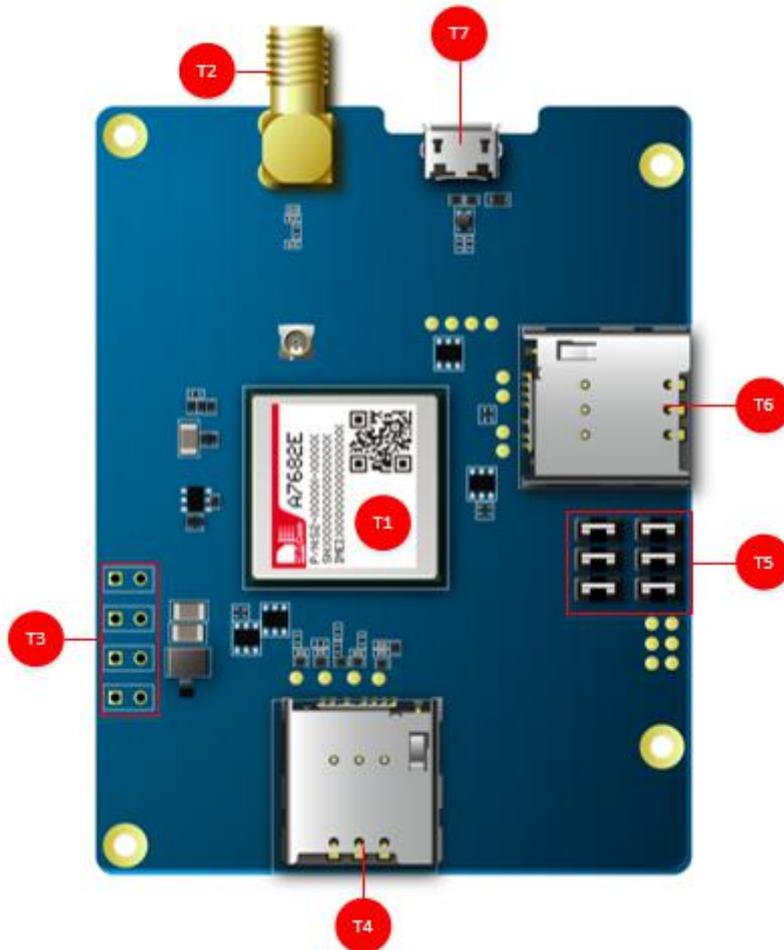


Figure 1: TE Top View

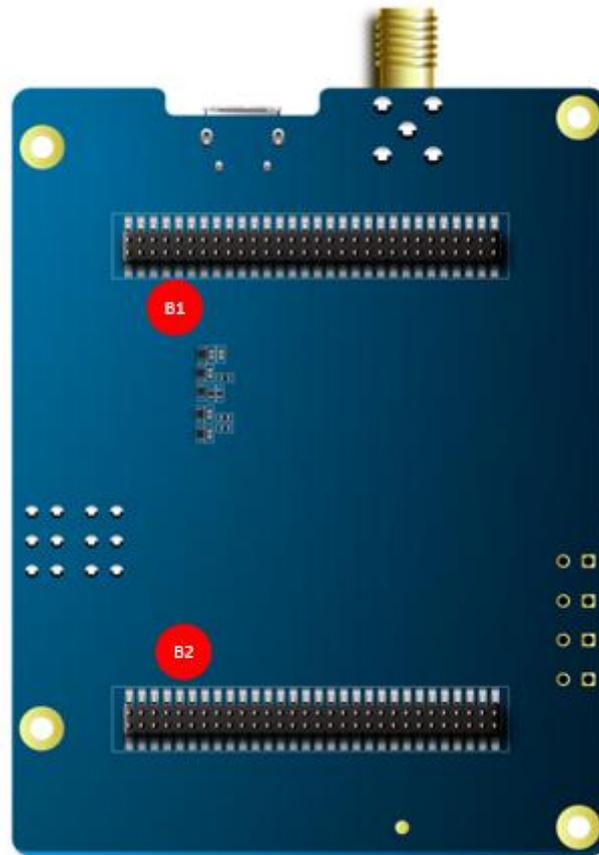


Figure 2: TE Bottom View

Attachment Label	Description
T1	Module
T2	Main Antenna Connector
T3	Test Point
T4	SIM Card Holder
T5	UART Switch
T6	SIM Card Holder
T7	Micro USB Connector
B1	Connector (Connect to SIMCOM-EVB)
B2	Connector (Connect to SIMCOM-EVB)

NOTE

If UART Switch connected to above two pins by jumper, the debug UART will connect to EVB;
If UART Switch connected to below two pins by jumper, the UART3 will connect to EVB.

2.TE Accessory

This TEKIT does not contain accessory. The main antenna is provided by the SIMCom EVB kit.

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3. Installing TE on SIMCom EVB Board

TE Kits are designed to work with the EVB board and they are fitted like the following Figure 3.

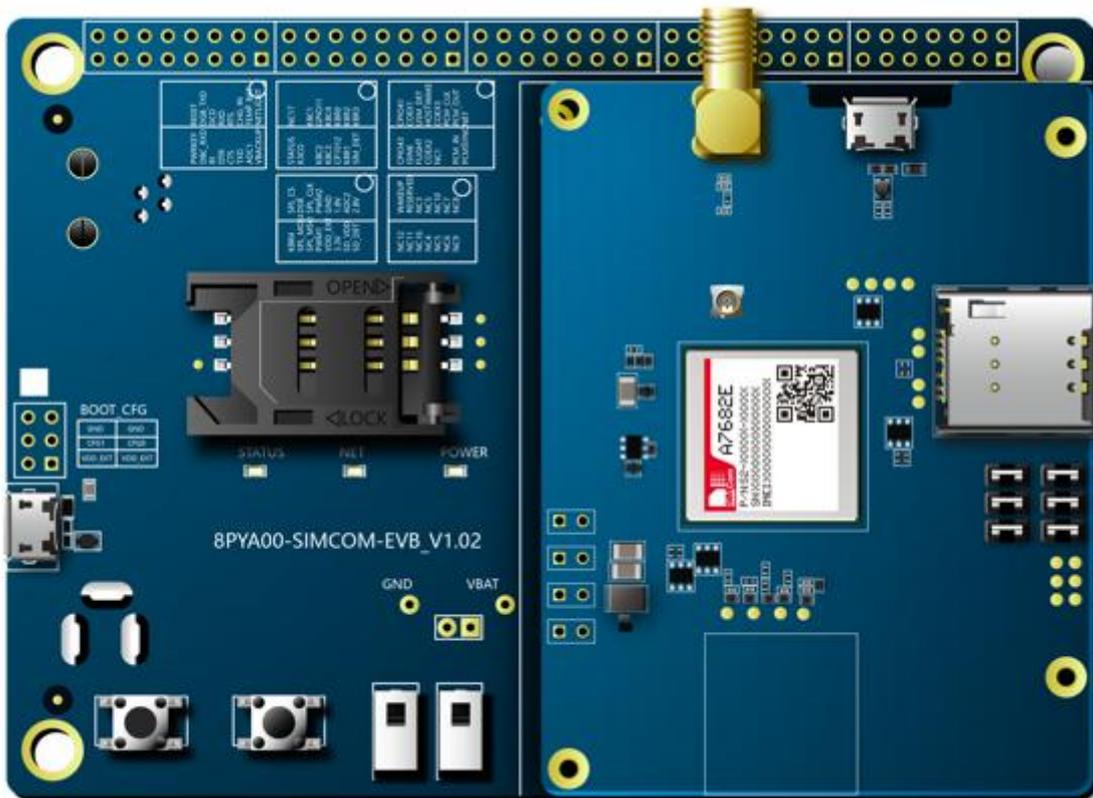


Figure 3: TE and SIMCOM-EVB Accessory

4. TE KIT USB Driver Installation

Users can manually install USB driver by the following steps:

1. Unzipping software. The installation package is shown in figure 4.

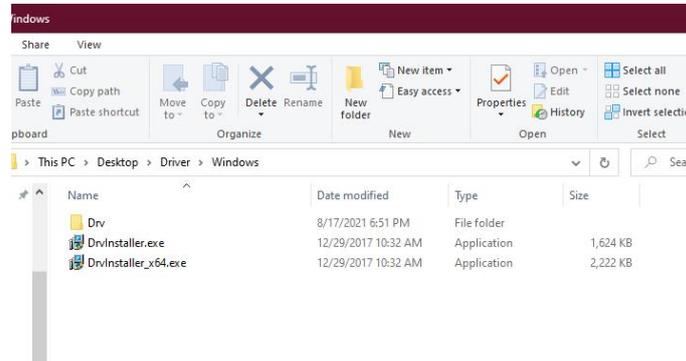


Figure 4: ASR1603 drivers

2. Installing the software. If the installation is successful, it will look like figure 5.

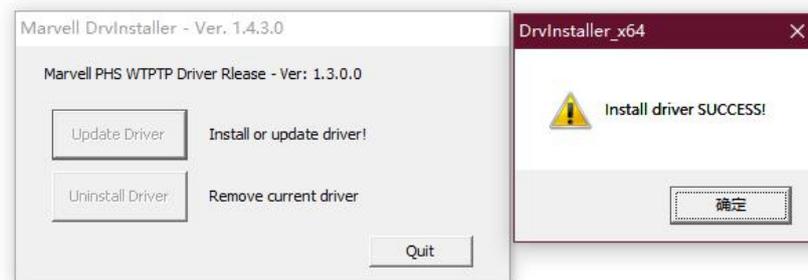


Figure 5: Software Installation Diagram

3. Using USB cable to connect your PC to the Micro-USB port on the TE board. Then several SimTech A7682E devices should be listed under other devices in device manager, as shown in figure 6.

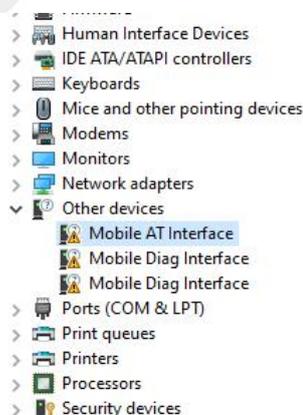


Figure 6: A7682E Devices Recognized by the Operating System

4. Right clicking the “Mobile AT Interface” devices and selecting “Update driver”.
5. Selecting “Browse my computer for drivers”.

6. Selecting “Let me pick from a list of available drivers on my computer”. You will see the device’s type list. Finding “Ports(COM & LPT)” like figure 7, then clicking “Next”.

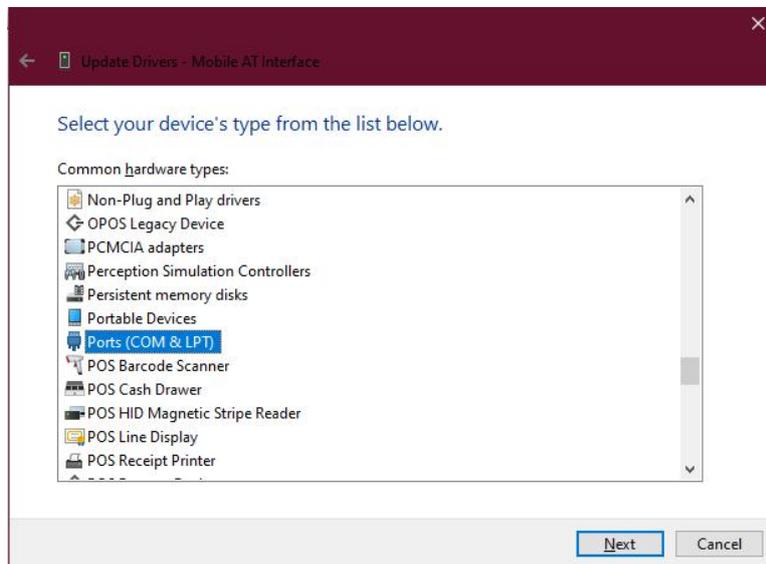


Figure 7: Device’s type list

7. Finding “ASR Hefe”, then clicking “ASR Modem Device” as shown in figure 8.

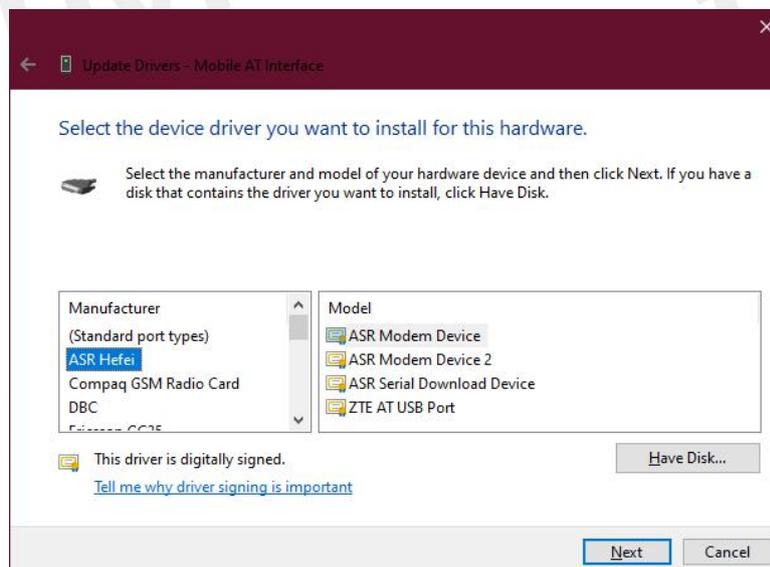


Figure 8: Device driver

8. Clicking “Next”, you will see “Update Driver warning”. Then click “yes”.



Figure 9: Update driver warning

9. Then you will see “Windows has successfully updated your drivers”. Clicking “Close”

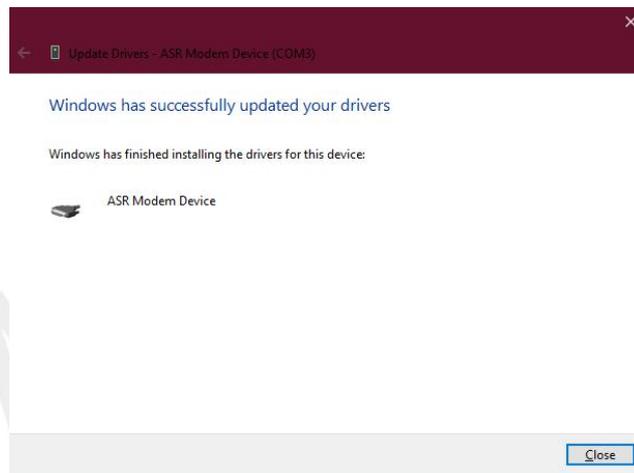


Figure 10: Update drivers

10. You can see “ASR Modem Device(COM3)” in device manager as shown in figure 11 on the left. Then You need to install the other two drivers in the same way, but you need to choose the other models named “ASR Modem Device 2” and “ASR Serial Download Device” as shown in figure 11 on the right.

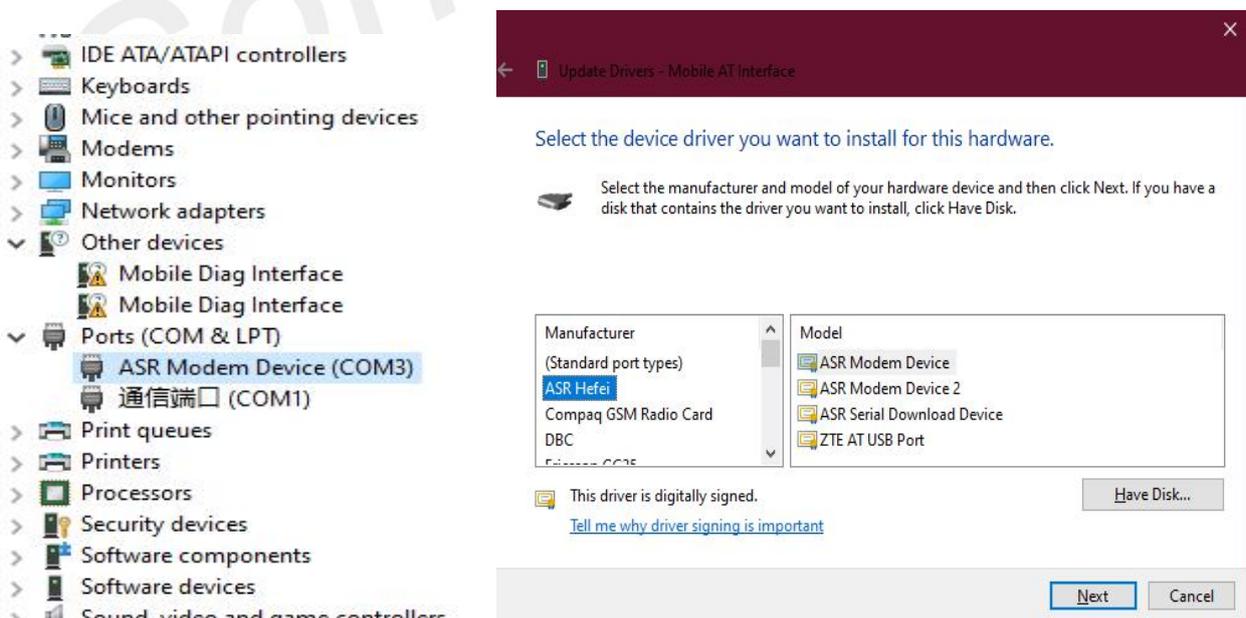


Figure 11: Other drivers installation method

11. Figure 12 shows that three drivers are installed successfully.

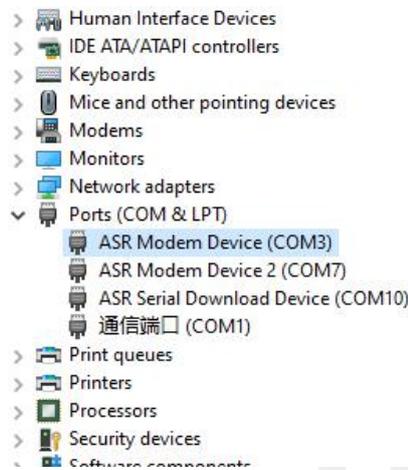


Figure 12: Port list

12. Then you need to Install the SIMCom's drivers. Using the same way. Right clicking and selecting "Update driver". Selecting "Browse my computer for drivers". Clicking "Browse" and manually searching the driver folder, then click "Next".

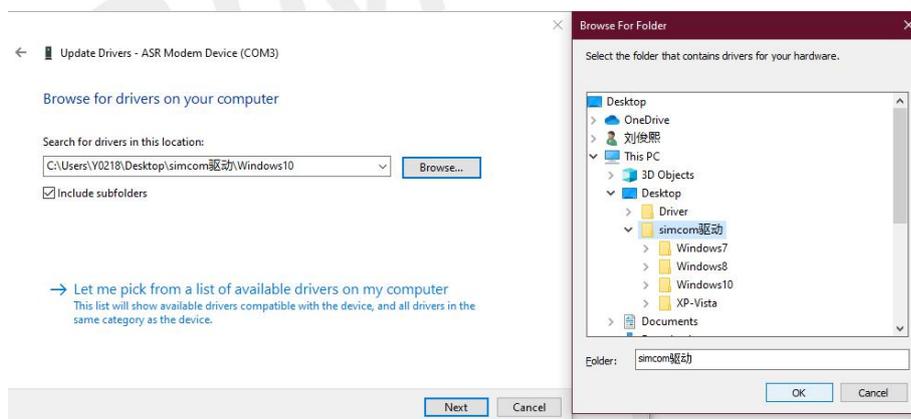


Figure 13: Browse for the drivers

13. Drivers need to be installed in the same way for each device. If you successfully install, you will see one SimTech device under Modems and three SimTech devices under Ports(COM & LPT) as shown in figure 14.



Figure 14: Schematic diagram of drivers' successful installation

After installing drivers, the ports can be used for following defined functions:

USB Ports	Description
SimTech HS-USB AT Port 9011	AT Command Communication Port
SimTech HS-USB Diagnostics 9011	Software Debug and FW Update Port

5. Using SIMCom Serial Port Tool

SIMCom has a serial port tool to test modules with AT Commands. Serial Port Tool can communicate with modules after opening COM Ports on list. On the following figure15, every section of serial tool can be seen.

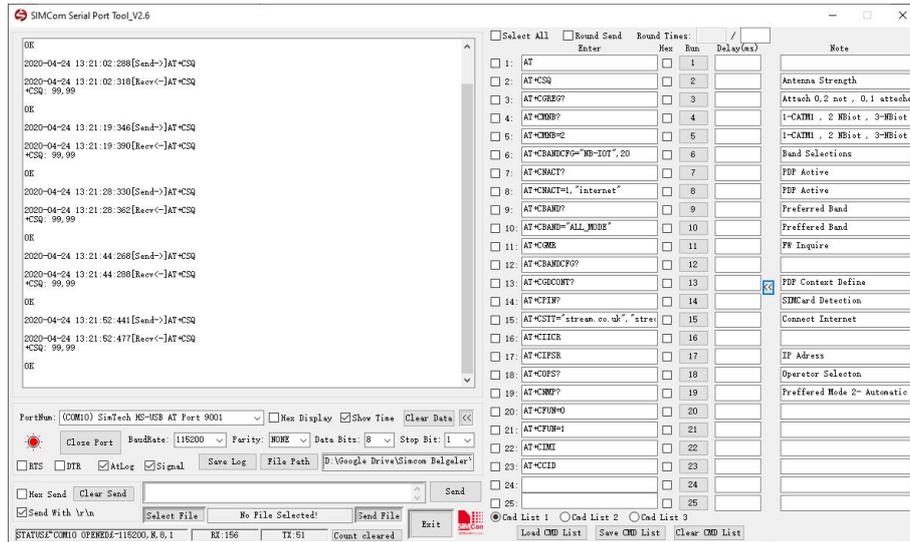


Figure 15: SIMCom Serial Port Tool Introduction

NOTE

Driver: USB driver and Serial Port Tool can be obtained from local agents or SIMCom FAE.