# A7670E_TE KIT
# User Guide

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# Version History

| Date | Version | Description of change | Author |
|------|---------|----------------------|--------|
| 2020-10-20 | 1.00 | Original | Li Gaochao<br>Guo Xiaojun |

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# SCOPE

**THIS DOCUMENT DESCRIBES HOW TO TEST WITH A7670E_TE. WITH THIS DOCUMENT, USER CAN GET USEFUL INFO ABOUT OUR SIMCOM-EVB QUICKLY.**

*THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.*

> **NOTE**
>
> For testing, customer needs SIMCOM_EVB and TE KIT together.
> Therefore, customer should refer this document together with the SIMCOM_EVB KIT User Guide

# 1. Detail description of A7670E_TE



**Figure 1: TE Top View**
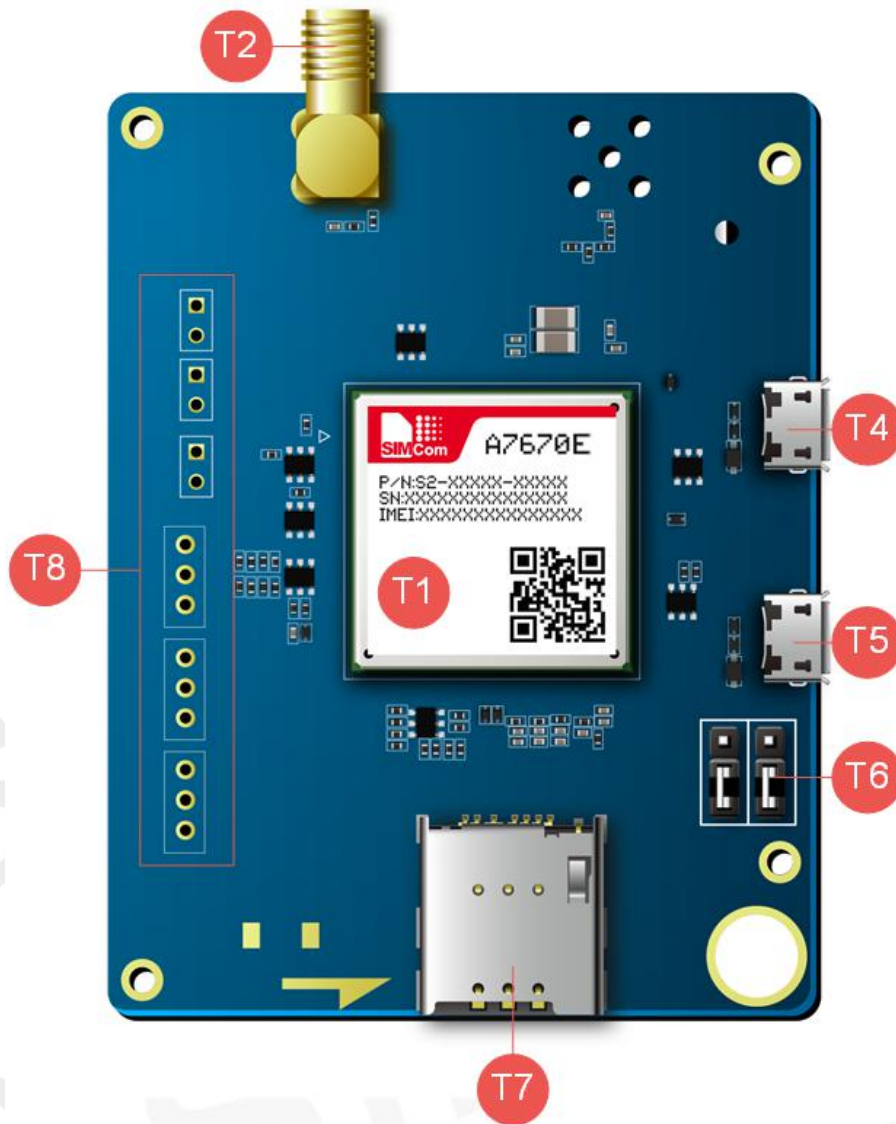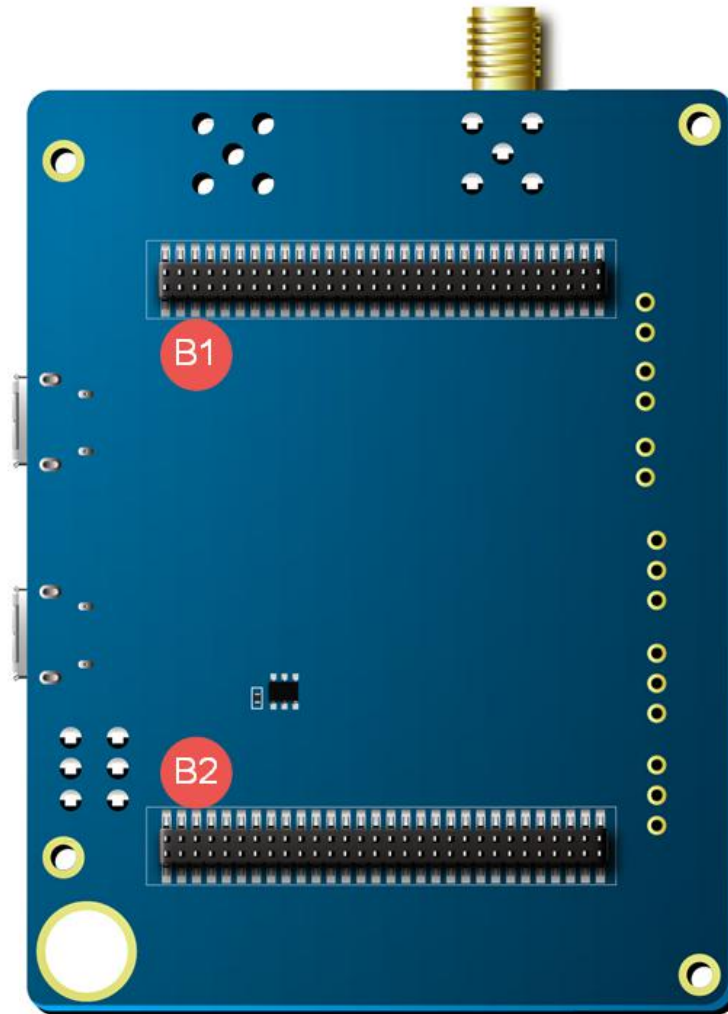
**Figure 2: TE Bottom View**

| Attachment Label | Description |
|---|---|
| **T1** | Module |
| **T2** | Main Antenna Connector |
| **T4** | Micro USB Connector |
| **T5** | Micro USB Connector |
| **T6\*** | UART Switch |
| **T7** | SIM Card Holder |
| **T8** | Test Point |
| **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.

# 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.
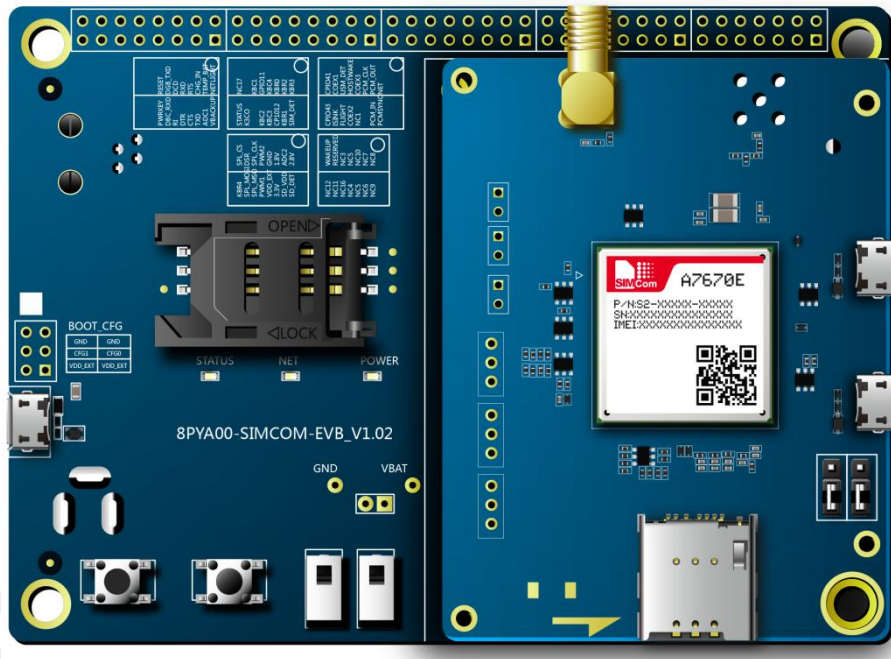


**Figure 3: TE and SIMCOM-EVB Accessory**

# 4.TE KIT USB Driver Installation

Users can manually install USB driver by the following steps:

1.  Use USB cable to connect your PC to the Micro-USB port on the TE board. There should be several SimTech A7670E devices listed under other devices in Device manager like the following Figure 4.
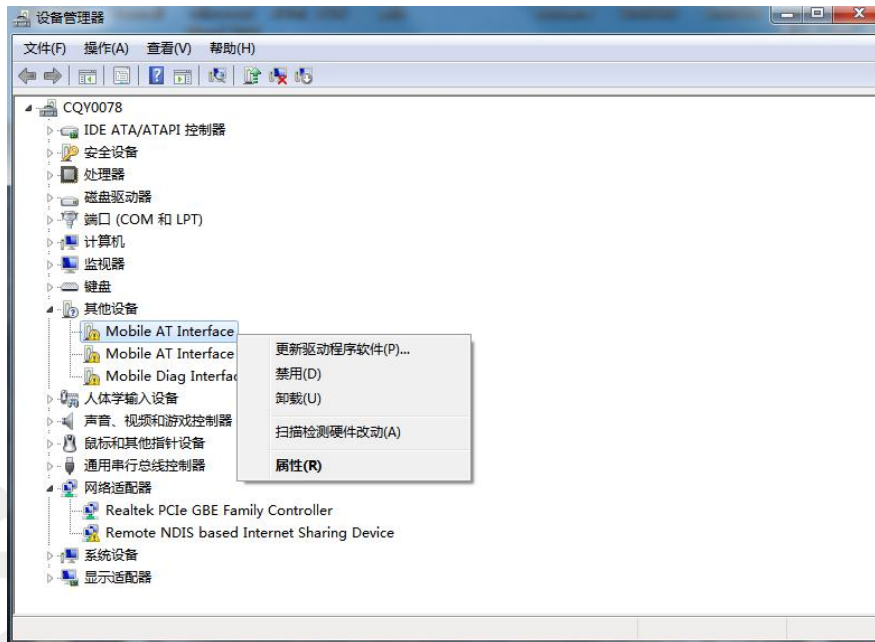
**Figure 4: A7670E Devices Recognized by the Operating System**

2.  Right click each of the "Mobile AT Interface" devices and select "Update driver".
3.  Select "Browse my computer for driver software".
4.  Click "Browse" and manually search from the driver folder provided, then click "Next".
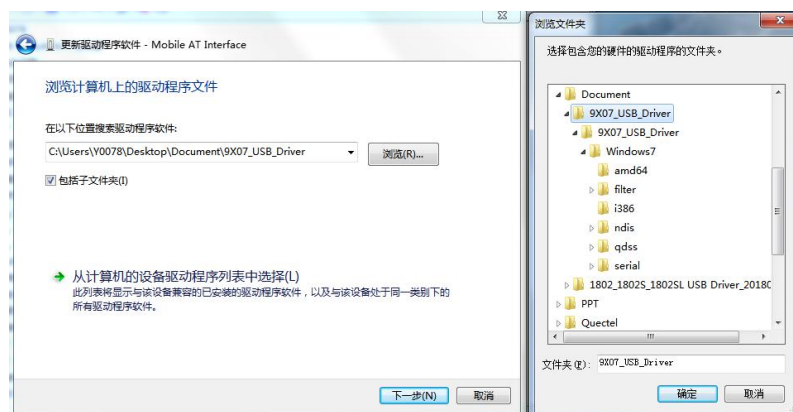
**Figure 5: Browse for the drivers**

5.  Repeat same procedure for each of the listed "Mobile AT Interface" devices under "Other devices" until Device Manager lists three SimTech devices under "Ports (COM & LPT)

6.  Finally there are one SimTech device under Modems and two SimTech devices under Network Adapters as shown on Figure 6.
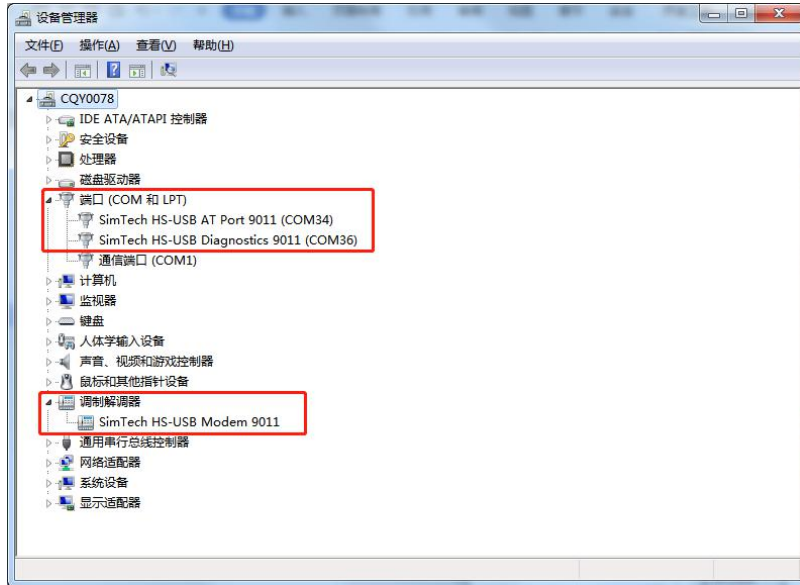


**Figure 6: All drivers installed**

After install driver, 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 |
| **SimTech HS-USB Modem 9011** | Modem Port for PPP |

# 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 figure, every section of serial tool can be seen.
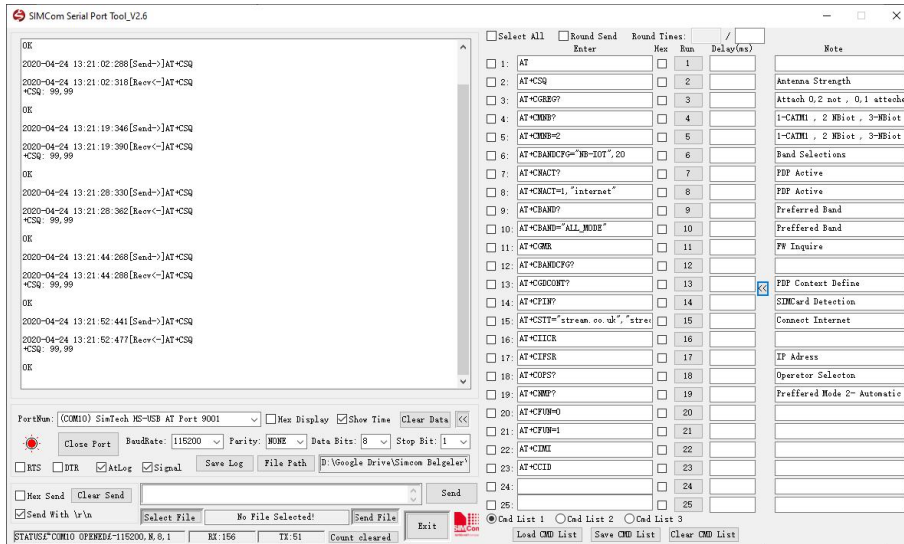


**Figure 7: SIMCom Serial Port Tool Introduction**

**NOTE**

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