

# SIM68 EVB Kit User Guide

**GNSS Module** 

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### **Version History**

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# SCOPE

THIS DOCUMENT DESCRIBES HOW TO USE SIMCOM-EVB TO DO TEST; USER CAN GET USEFUL INFO ABOUT THE SIMCOM-EVB QUICKLY THROUGH THIS DOCUMENT.

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





### 1. SIMCom-EVB Overview

This document gives the usage of SIM68 EVB-Kit, user can get useful information about the SIM68 EVB quickly through this document.

This document is subject to change without notice at any time.

#### 1.1 Acronyms and abbreviation

#### Table 1: Acronyms and abbreviations

| Abbreviation | Description                                  |    |
|--------------|--|----|
| DC           | Direct Current                               |    |
| I/O          | Input/Output                                 |    |
| LED          | Light Emitting Diode                         |    |
| SPI          | Serial Peripheral Interface                  |    |
| USB          | Universal Serial Bus                         |    |
| UART         | Universal Asynchronous Receiver & Transmitte | er |
|              |  |    |



### 2. SIM68 EVB Overview

#### 2.1 Detailed description of SIM68-EVB

The chapter introduces the functions of each component.



Figure 1: SIM68-EVB components function

- A: USB interface, support USB communication with SIM68, and also power the SIM68-EVB.
- B: S301, Power switch, push up to power the EVB and module, push down to power off.
- C: S304, Reserved.
- D: S302, DOWNLOAD switch, push up to going into download mode.
- E: S303,sleep switch,push up to going into sleep mode,push down to wakeup from sleep mode.
- F: S201 select power source for level shift.
- G: S202, NMEA output select. Push up to choose main port, push down to choose USB port.
- H: RESET button, pressed to reset SIM68
- I: MODULE connector, insert module and TE for test
- J: DEBUG port, for debug and download



Q: MAIN port, for communication

L: test point area

M: J302,the jumper of VANT which is the source of active of antenna

N: Select for receiving NMEA data from A or Q. Jump the left and middle needle is select A port, jump the middle and right needle is select Q port.

O: Select for transmitting NMEA data from A or Q. Jump the left and middle needle is select A port, jump the middle and right needle is select Q port.

#### 2.2 USB Interface

There is one Mini-USB interface on SIM68-EVB, which is transferred to UART by a USB to UART chip CP2103 on the EVB board. User need to install CP2103 driver in their PC first, then connect the EVB board to the PC by a USB cable, and push S301 up to power the SIM68-EVB.

Please download the latest CP2103 driver according to the PC's OS from the following link: <u>http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx</u>

Or contact SIMCom support for it.



Figure 2: USB interface

#### Table 2: USB pin definition

| PIN | Signal | I/O | Description |
|-----|--------|-----|-------------|
| 1   | VBUS   | I   | 5V input    |
| 2   | D-     | IO  | Data minus  |
| 3   | D+     | IO  | Data plus   |
| 4、5 | GND    |     | GND         |





User need to install CP2103 driver in their PC first before using SIM68-EVB.

Please download the latest CP2103 driver according to the PC's OS from the following link: <u>http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx</u> Or contact SIMCom support for it.

#### 3.1 An example of USB driver installation

Step1.exectue Setup file (CP210x\_VCP\_Win\_XP\_S2K3\_Vista\_7)

| 56            |   |
|---------------|---|
| Setu<br>can i | p has detected one or more instances of this application already installed on your system. Y<br>maintain or update an existing instance or install a completely new instance. |
| 0             | Install a new instance of this application  |
| 0             | $\underline{M}$ aintain or update the instance of this application selected below:  |
|               | Display Name  |
|               | Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7<br>Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7_2 (c:\S              |
|               |   |

Figure 3: USB driver installation step1



Step2.select "next" button then "next"

| Silicon Laboratories | CP210x WCP Drivers for Windows XP/ 🗙   |
|----------------------|--|
|                      | Welcome to the InstallShield Wizard for Silicon<br>Laboratories CP210x VCP Drivers for Windows<br>XP/2003 Server/Vista/7 v6.00<br>The InstallShield Wizard will copy Silicon Laboratories<br>CP210x VCP Drivers for Windows XP/2003 Server/Vista/7<br>v6.00 onto your computer. To continue, click Next. |
|                      | < <u>₿</u> ack <u>Next</u> > Cancel  |

Figure 4: USB driver installation step2

Step3. Accept the license agreement and "next"

|   |  | ENENT  |                                      |                              |                           |                                    |                 |
|---|--|--|--------------------------------------|------------------------------|---------------------------|------------------------------------|-----------------|
| IMPORTANT:  | READ CARE  |  |                                      |                              |                           |                                    |                 |
|   | BATOBIES IN  | งการแปกต์                                      |                                      |                              | S INTER                   | ΝΔΤΙΩΝΔΙ                           | PTF             |
| LTD., AND TH  | EIR AFFILIAT                                       | ES (COLLE                                      | CTIVELY                              | , "SILICO                    | N LABS'                   | ') HAVE                            | F 0005          |
| IDEVELUPED U  | ERTAIN MAT   | ERIALS (                                       | E.G., DEVI                           | ELUPMEI<br>PHTER R           | NT TUUI<br>ROGRAI         | LS, EXAMPL<br>MS AND OT            | LE CUDE,<br>HEB |
| EMBEDDABLE  | CODE, DLLs   | , SOFTWA                                       | RE/COMP                              | OTENT                        |                           |                                    |                 |
| EMBEDDABLE<br>THIRD PARTY<br>MAY USE IN C                 | CODE, DLLS<br>PROPRIETA                            | , SOFTWA<br>RY MATE<br>I WITH SI               | RIAL) ("LION<br>LICON LA             | CENSED                       | MATERI                    | ALS") THAT                         | YOU<br>ISE OF   |
| EMBEDDABLE<br>THIRD PARTY<br>MAY USE IN C<br>THE LICENSEI | CODE, DLLs<br>PROPRIETA<br>DNJUNCTION<br>MATERIALS | , SOFTWA<br>RY MATE<br>N WITH SI<br>S IS SUBJI | RIAL) ("LIC<br>LICON LA<br>ECT TO TI | CENSED<br>BS' MCU<br>HIS END | MATERI<br>PRODU<br>USER L | ALS") THAT<br>CTS. ANY U<br>ICENSE | YOU<br>JSE OF   |
| EMBEDDABLE<br>THIRD PARTY<br>MAY USE IN C<br>THE LICENSEI | CODE, DLLs<br>PROPRIETA<br>DNJUNCTION<br>MATERIALS | , SOFTWA<br>RY MATE<br>N WITH SI<br>S IS SUBJI | RIAL) ("LIC<br>LICON LA<br>ECT TO TI | CENSED<br>BS' MCU<br>HIS END | MATERI<br>PRODU<br>USER L | ALS") THAT<br>CTS. ANY L<br>ICENSE | YOU<br>JSE OF   |

Figure 5: USB driver installation step3



#### Step4. Choose Driver Destination Location

| To install to this folder, click Next. To install to a different folder, click Browse and select another folder. | Setup will install Silicon Laboratories CP210<br>Server Alista /7 vS 00 in the following folder | )x VCP Drivers for Win     | dows XP/2003    |        |   |
|--|---|----------------------------|-----------------|--------|---|
| Destination Folder   | To install to this folder, click Next. To install<br>another folder.                            | I to a different folder, c | lick Browse and | select |   |
| Destination Folder   |   |                            |                 |        |   |
|  | Destination Folder  | ) 16-1- 7 0                |                 | Irouno |   |
|  | Sec. 1  |                            |                 |        | _ |

Figure 6: USB driver installation step4

Step5. Confirm Installation, select "Install" button

| Silicon Laborator   | ies CP210x VCP                           | Drivers fo            | or Vindovs        | XP/           |
|---|--|-----------------------|-------------------|---------------|
| Ready to Install the P<br>The wizard is ready to b                    | r <b>ogram</b><br>egin installation.     |                       |                   | 22            |
| Click Install to begin the<br>If you want to review or<br>the wizard. | installation.<br>change any of your inst | allation settings, cl | ick Back. Click C | ancel to exit |
|   |  |                       |                   |               |
| InstallShield   |  | < <u>B</u> ack        | Install           | Cancel        |

Figure 7: USB driver installation step5



#### Step6. Launch the CP210x VCP Driver Installer

| InstallShield Wizard Complete         The InstallShield Wizard has successfully copied the Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.00 to your hard drive. The driver installer listed below should be executed in order to install drivers or update an existing driver.         ✓ Launch the CP210x VCP Driver Installer.         Click Finish to complete the Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.00 setup. |
|---|
| < <u>B</u> ack Finish Cancel  |

Figure 8: USB driver installation step6

| Step7. Select "Install" butto | n |
|-------------------------------|---|
|-------------------------------|---|



Step8. Installation completed.



Figure 10: USB driver installation step8



Step9. After completing CP2103 driver installation, connect SIM68-EVB to PC by the bus cable, and set S301 switch to VBUS, then "Silicon Labs CP210x USB to UART Bridge (COMX)" will appear in the device manager:

| Action       ¥iew       Image: Proceeding of the second s |
|--|
| Tree         Computer Management (Local)         System Tools         Event Viewer         System Information         Performance Logs and Alerts         Performance Logs and Groups         Storage         Disk Management         Logical Drives         Performance Services and Applications         Performance         Performance         Performance         Performance         Performance         Performance         Performance         Performance         Performa  |
|  |

Figure 11: USB driver installation step9

#### 3.2 Connecting and run

To test the SIM68 module, the following operations are needed:

- 1. Install CP2103 driver
- 2. Install GPS test tool
- 3. Connect the active antenna to the RF connector, and insert SIM68-TE to module connector
- 4. Connect the SIM68-EVB to PC with USB cable
- 5. Make sure that S304 is switched off
- 6. Push up the power switch of S301.
- 7. Push up the switch of S202 to select UART signal
- 8. Open GPS test tool to test



### 4. SIMCom GPS Testing Tool

Please contact SIMCom to get the newest version of GPS Testing tool.

#### 4.1 Port setting

In the testing tool interface, open the "setting" window according to the following path: Module-->Properties.

| Biscenaet UUC Time Bif Time Latitud Longitude Altitude GPS average power GLONASS average power                       | bisonaet<br>ULC lane<br>BJ line<br>Latitud<br>Longitude<br>Altitude<br>Speed<br>PDOP HEOP VTOP<br>GDS average power<br>GLONASS de-9e]<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>* | Connect  |                      | - Position                       |
|--|--|--|----------------------|----------------------------------|
| HJ fine<br>Latitud<br>Longitude<br>Altitude<br>Speed<br>PDOP HDOF VDOP<br>GPS average pover<br>GLDHASS average pover | HJ fine<br>Latitud<br>Longitude<br>Altitude<br>Speed<br>FDOP HEOP VDOP<br>GDS average power<br>GLOMASS average power<br>Altitude<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K      | Disconnect GPS [1-32][33-64 (+87)  | GLONASS [65-96]      |                                  |
| GLOWASS average power  | GLOHASS average power  | BJ Time Latitud Longitude Altitud Speed PDOP HDOP VDOP GPS average power |                      | 90                               |
| Restart Type Cycle Times (T) Unfix TimeOut (S) Fixed   |  | GPS average power GLONASS average power                                  | * Restart Type Cycle | Times(T) UnfixTimeOut(S) FixedTi |
| IIIFO] TIFF Test end   |  | Log IsSave Pause Clear   | Command Result       | With CheckSu                     |

Figure 12: Testing tool interface



| Setting                    |                                       | ×   |
|----------------------------|---------------------------------------|-----|
| Model<br>Module<br>RF Type | SIM68 -<br>BMC4751: Thames, Ext. Ant. | -   |
| ComPort<br>NMEA COM        | ✓ BaudRate 115200 ▼                   |     |
| Main COM                   | COM1<br>BaudRate 115200               | 2   |
|                            | Cancel OK                             | (0) |

Figure 13: Setting Window

In the "NMEA COM" pull-down list choose the corresponding com mentioned before. The baud rate is 115200.

#### 4.2 Click to RUN

Click the button "Run Comport" on the up left to run the module.

| SIECom GP:      | 5 DE <b>H</b> O V1.03 | Iodule: | SI <b>1</b> 68 |
|-----------------|-----------------------|---------|----------------|
| Module Windows  | Tools Help            |         |                |
|                 |                       |         | N 🕂 8          |
| Gen Run Comport |                       |         | × Signa        |
| UTC Time        |                       |         |                |
| BJ Time         |                       |         |                |
| F               |                       |         | -              |





The module will run as the following figure:



Figure 15: The Module is running

After position has been fixed, the GPS information can be viewed in the "General info" window. In the "Signal" window, you can see the information of each satellite signal that has been tracked, GPS on the left and GLONASS on the right. The NEMA output is in the down left, and it will be saved as txt file in the GPS testing tool directory, with start time as its name.

#### 4.3TTFF Test

The test configure should be set before each TTFF test. It is in the down right part of the tool interface. The restart type (hot, warm or cold) could be selected in the pull-down test. Fill in the next three blank (Cycletimes for the testing times, Unfixtimeout for the max time limit of each test and Fixedtimeout for the time waiting before next TTFF test) and press the start button.





Figure 16: Setting TTFF testing configuration

The result of each TTFF will be shown in the window, each TTFF smaller than the "UnfixTimeOut" is labelled as Pass.



Figure 17: TTFF Test Result





### 5. Download

To update the SIM68 module software, the following operations are needed:

- 1. Connect the SIM68-EVB to PC with USB cable
- 2. Make sure that S304 is switched off
- 3. Put on the power switch S302.
- 4. Put on the switch S202 to select UART signal
- 5. Put on the power switch S301.
- 6. Download through download software tool:
  - a). Open PowerFlash\_Simcom tool to download software The interface of download software tool is as follow:

| - 21           | 44        | 1       | ~    | ~    | 1     |       |  |
|----------------|-----------|---------|------|------|-------|-------|--|
| Download Agent | ZI<br>BOM | Connect | Test | Ston | Clean | Ahout |  |
|                |           | 1       |      | F    | 1     |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |
|                |           |         |      |      |       |       |  |

Figure 18: module download interface

b). Click the first button: *Download agent*, and chose the relative file(xxx\_AllInOne\_DA\_xxx.bin) as follow:



| MI打开                |  |                      |
|---------------------|--|----------------------|
| 查找范围(I):            | B01V01SIM68ML1   | ← 🗈 📸 🐨              |
| C.                  | 名称   |                      |
| 最近访问的位<br>置<br>桌面   | <ul> <li>B01V01SIM68ML1.bin</li> <li>B01V01SIM68ML1_AllInOne_DA_AG3331_</li> <li>B01V01SIM68ML1_ReleaseNote.txt</li> </ul> | MP.bin               |
| <mark>篇</mark><br>库 |  |                      |
| <b>山</b><br>计算机     |  |                      |
|                     | <  | ,                    |
| 网络                  | 文件名(M): V01SIM68ML1_AllInOne_DA_AG3  | 331_MP. bin 💌 打开 (0) |
|                     | 文件类型(I):   | ▼ 取消                 |
|                     |  |                      |

Figure 19: After Click Download agent

c). Click the second button: *ROM*, and chose the relative file(xxx.bin) as follow:

| ₩ 打开                |            |                                     |                          |          |          |
|---------------------|------------|-------------------------------------|--------------------------|----------|----------|
| 查找范围(I):            | BO1VO1SIME | 58ML1                               | •                        | + 🗈 💣 📰  | <b>-</b> |
| Gi.                 | 名称         |                                     | ~                        |          |          |
| 最近访问的位              | B01V01SI   | M68ML1.bin                          |                          |          |          |
| 血<br>加<br>桌面        | 2 B01V01SI | M68ML1_AllInOne_<br>M68ML1_ReleaseN | _DA_AG3331_N<br>lote.txt | 1P.bin   |          |
| 厚                   |            |                                     |                          |          |          |
| . 《 <b>》</b><br>计算机 |            |                                     |                          |          |          |
| <b>C</b>            | •          | ш                                   |                          |          | •        |
| Matt.               | 文件名(10):   | B01V01SIM68ML1.                     | bin                      | <b>_</b> | 打开(0)    |
|                     | 文件类型(T):   |                                     |                          | •        | 取消       |
|                     |            |                                     |                          |          | li       |

Figure 20: After Click ROM

d). Click the third button: Connect, (Mind select the right com port and Baudrate) as follow:



| මේ <b>්</b> ▶<br>ownload Agent ROM Connec  | C<br>Test   | Stop Clea           | <b>) M</b><br>an About                                     |   |
|--|---|---------------------|--|---|
| M COM 49 Ready   | M COM 3 Ready<br>Socket Serial No<br>Serial Number :<br>BT Mac Addr : |                     | M COM 81<br>Socket Seria<br>Serial Number:<br>BT Mac Addr: | □ □ X   |
| 4         6           55 <td>55 55 55 55 55<br/>55 55 55 55</td> <td>55 55 55<br/>55 55 5</td> <td>55 55 55 55<br/>55 55 55</td> <td>₹<br/>1<sup>4</sup> 55] 55] 55<br/>55] 55] 55]</td> | 55 55 55 55 55<br>55 55 55 55   | 55 55 55<br>55 55 5 | 55 55 55 55<br>55 55 55                                    | ₹<br>1 <sup>4</sup> 55] 55] 55<br>55] 55] 55] |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 1-<br>N2   | 1 2 3 4 5 6 7 8   | 9 10 11 12 13 1-    | 1 2 3 4 5 6 7  | 8 9 10 11 12 13                               |

Figure 21: After Click Connect

e). Click the forth button: *Test*, to download the software as follow:



Figure 22: After Click Test





f). When the module downloads OK, it will show the following clew.

Figure 23: module download pass