

SIM7080G_TE Kit User Guide





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SCOPE

THIS DOCUMENT DESCRIBES HOW TO USE SIM7080G-TE 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.

NOTE

As SIM7080 EVB kit including SIM7080-TE kit + SIMCOM_EVB kit, so customer should refer to this SIM7080 TE kit user guide document and SIMCOM_EVB KIT_User Guide document together.





1. Detail description of SIM7080G-TE



Figure1: TE View

Attachment Label	Description
Α	Module
С	Micro USB Connector
D	GNSS Antenna Connector
E	Main Antenna Connector
F	TE module orientation mark (must be the same as the marking direction on SIMCOM-EVB)
G	Connector (Connect to SIMCOM-EVB)
н	Connector (Connect to SIMCOM-EVB)



2. TE Accessory



Figure 2: TE Accessory

Attachment Label	Description	Quantity
Μ	GNSS Antenna	1
Ν	Main Antenna	1

NOTE

The main antenna is included in the SIMCOM_EVB KIT.



3. Installing TE on SIMCom EVB Board

TE Kits are compatible with EVB Boards and they fitted like on the following figure.



Figure 3: TE and SIMCOM-EVB Accessory

NOTE

When install SIM7080G-TE to SIMCOM-EVB, please keep orientation mark (F) aligned on TE and EVB.



4. TE KIT USB Driver Installation

When USB Cable plugged in a PC and connected as shown on the figure: TE View – C: Micro USB Port" There should be several SimTech SIM7080 devices listed under other devices in Device manager like the follow figure.



Figure 4: SIM7080 Devices Recognized by the Operating System

Please right click on each of the "SimTech SIM7080" devices and select "Update driver". Please select "Browse my computer for driver software". Please click "Browse" and manually search and point to the driver folder "SIM7070_SIM7080 _SIM7090 Series Windows USB Driver_V1.00" and confirm by clicking "Next".



	× Browse For Folder
← I Update Drivers - SimTech HS-US8 AT Port 9205 (COM115)	Select the folder that contains drivers for your hardware.
Browse for drivers on your computer	> 🏠 OneDrive 🔨
Search for drivers in this location:	✓
C:\Users\admin\Documents\SIM7070_SIM7080_SIM7090 Series Wind ~ Browse	> J 3D Objects
✓ Include subfolders	Documents 360js Files
	SIM7070_SIM7080_SIM7090 Series Windows USB Driver_V1.00 Similar infiter indis
→ Let me pick from a list of available drivers on my computer	> serial
This list will show available drivers compatible with the device, and all drivers in the same category as the device.	CIN470705 C CIN470005
	Folder: SIM7070_SIM7080_SIM7090 Series Windows USB Driver_V1.00
	OK Cancel
Next Cancel	
INCAL CONCENT	-

Figure 5: Browse for the drivers

Please repeat same procedure for each of the listed "SimTech 7080" devices under "Other devices" until getting listed three SimTech devices under "Ports (COM & LPT), one SimTech device under Modems and one SimTech device under Network Adapters as shown on the following figure.



Figure 6: All drivers installed

After driver installs, Ports can use for purposes bellow;

USB Ports	Description
SimTech HS-USB AT Port 9205	AT Command Communication Port
SimTech HS-USB Diagnostics 9205	Software Debug and FW Update Port
SimTech HS-USB NMEA 9205	GNSS NMEA Output 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 figure, every section of serial tool can be seen.

06	Sel	ect All Bound Send Round	I Tin	es:	nalau(an)	¥
2020-04-24 13 21 02 288[Send->]AT+C30		AT T		1	L'exey(es/	2010
2020-04-24_13:21:02:310 [Reve (~]AT 4CSQ	2:	AT+CSQ		2		Antenna Strength
*CSQ: 99,99	3:	AT +CGE2G?		3		Attach 0.2 not . 0.1 atteche
OB	□ 4:	AT+008?		4		1-CATM1 , 2 MSiot , 3-MSiot
2020-04-24 13:21:19:346[Send->]AT*C5Q	6:	SH0000 TA		5		I-CATHI , 2 MBist , 3-MBist
2020-04-24 13:21:19:390[Berry(-]AT+CSQ +CSQ: 99,99	6:	AT *CBANDCRG="ND-IOT", 20		6		Band Selections
OK .	07:	AT+CNACT?		7		FDP Active
2020-04-24 13:21:20:330[Send->]AT+CSQ	0:	AT+CHACT=1, "internet"		8		70P Active
2020-04-24_13:21:28:362[Eeev(-]AT+CSQ	9:	AT *CBAND?		9		Treferred Band
+034: 99,99	10	AT+CBASD="ALL_MODE"		10		Preffered Band
0E	. 11:	AT +CORR		11		PR Inquire
2020-04-24 13:21:44:268[S4n4-)[AT+CSQ	12	AT +CBANDCPG?		12		
2020-04-24 13:21:44:258[Recv<-]AT+CSQ +CSQ: 99,99	13	AT+COLCOST?		13	E	PDP Context Define
on	14:	AT CPIN?		14		SINCard Detection
2020-04-24 13:21:52:441[Send->]AT+CSQ	15	AI+CSTT="stream.co.uk", "stream		15		Connect Internet
2020-04-24 13:21 62:477[Reev]AT+CSQ	16	AT+CIICR		16		
<231: 39, 99	17:	AT *CIFSR		17		IP Adress
OK .	18	AT+COPS?		10		Operator Selecton
	19:	AT+CHEP?		19		Freffered Mode 2- Automatic
artime: (COMID) SisTack MS-HSB at Port 9001	20:	AT +CFU9+0		20		6
	21	AT+CFUS=1		21		
Close Part Buddate. 116200 V Parity BORE V Date Bits 8 V Stop Bit. 1 V	22:	AT +CIRI		22		
RTS DTR MAtLog Signal Save Log File Fath D \Google Brive\Sincon Belgeler'	23:	AT +CCID		23		
20 a 1 at a 1	24			24		
	25:			25		
Send With Wrin Select File Me File Selected! Send File Weis	(Cad	List 1 OCad List 2 OCad	List	3		

Figure 7: SIMCom Serial Port Tool Introduction

Also, SIMCom Serial Port Tool may take some log records and save these command lists to use later again. Tool has a 3 CMD List sections and holds AT Commands with their notes and saves under .ini format on PC to import it back.

NOTE

Driver: SIM7070_SIM7080_SIM7090 Series Windows Driver_V1.00 and Serial Port Tool: SIMCom Serial Port Tool_V2.6 obtained from local agents or SIMCom FAE