User Guide



SIM7020 Series Genie Logging Tool User Guide

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About Document

Document Information

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Revision	Date	Owner	Status / Comments
1.0	April 28, 2018	Albert Meng	First Release.

Related Documents

[1] SIM7020 Series AT Command Manual V1.0.pdf

This document applies to the following products:

Name	Type	Size (mm)	Comments
SIM7020C	NB1	17.6*15.7	Band 1/3/5/8
SIM7020E	NB1	17.6*15.7	Band 1/3/5/8/20/28

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Contents

About Document **2**

Document Information 2
Revision History 2
Related Documents 2

Contents **3**

1 Purpose of this document **4**

2 Genie Installation **4**

2.1 USB driver installation 4
2.2 Genie installation 4

3 Genie operation **5**

3.1 configurations 5
3.2 logging 7
3.3 Grab memory dump 7

Contact **8**

1 Purpose of this document

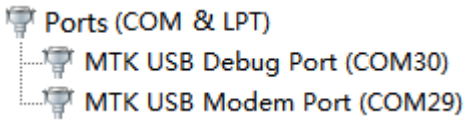
This document will guide developer how to use Genie logging tool.
Genie logging tool is windows application provided by MTK, which is used to grab and analyze SIM7020 platform log package.

2 Genie Installation

2.1 USB driver installation

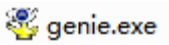
Genie tool will occupy SIM7020 USB port for logging as default.
Before logging, should make sure USB driver installed properly. Please contact SIMCom FAE for USB driver.

After driver installed properly, there will be two virtual ports.



2.2 Genie installation

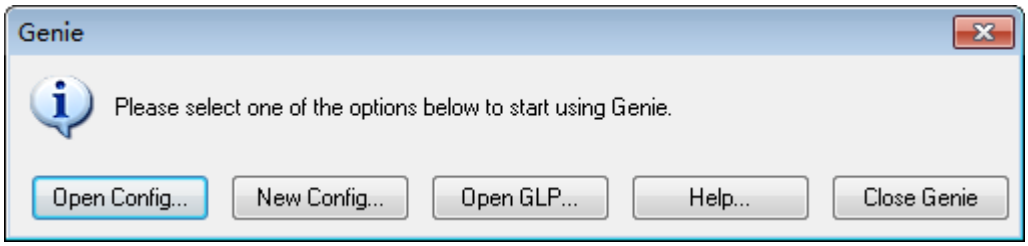
Copy and Unzip Genie.rar to local drive, for example D:\Genie.
Run genie.exe program directly for logging.



3 Genie operation

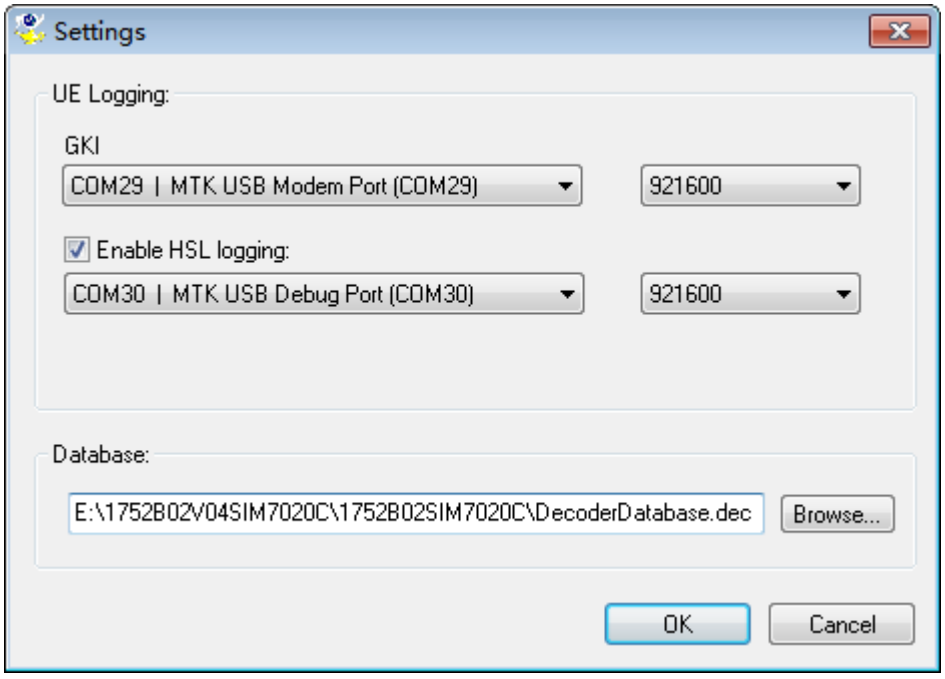
3.1 configurations

1) Power on module, insert USB cable to PC.
2) If starting Genie for the first time, then the following dialog window will pop up and give some options.



- **Open Config**: Select an existing *gni file
- **New Config**: Create new one *gni with some default values
- **Open GLP**: Open an existing log package

3) Click on “New Config” to start, and GKI settings window will come up.
Also, user later can select “Config->Edit Config” from main toolbar to bring this window out.

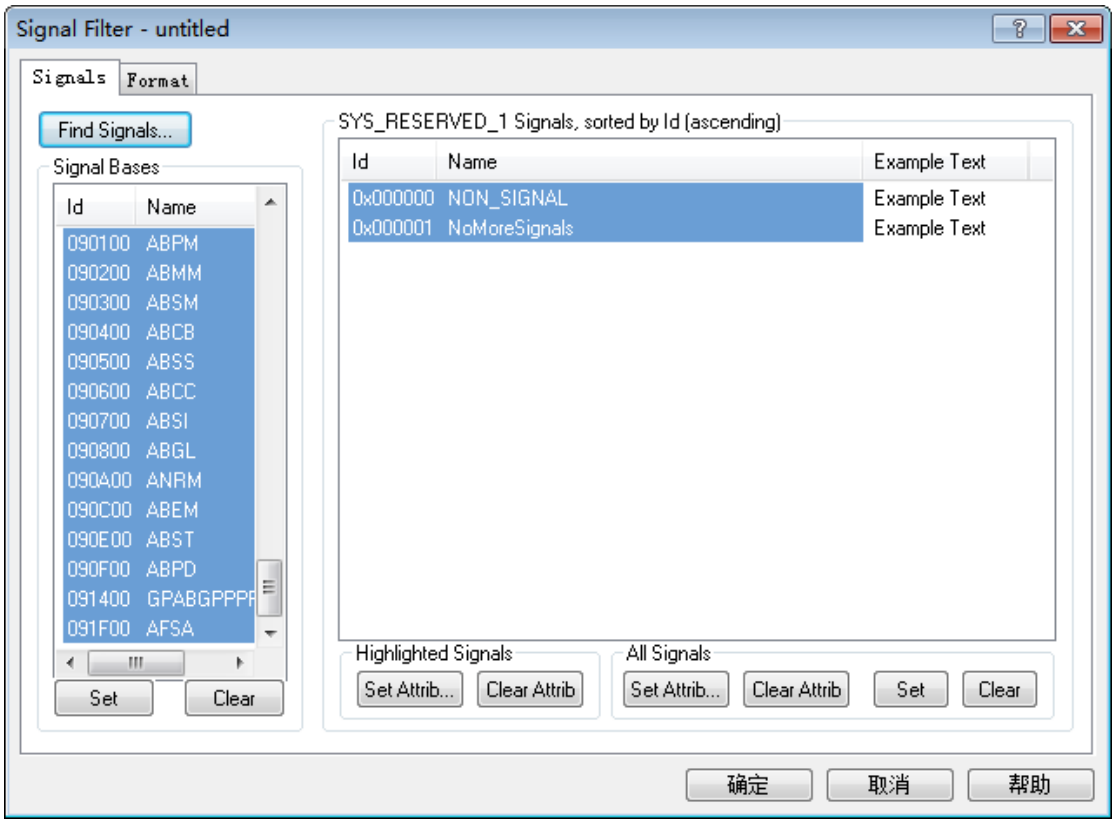


Genie is a windows application which provides logging for the SIM7020 project for two streams of data. The two streams are independent of each other.

- **GKI signals from USB Modem port** with 921600bps baud rate default:
  - Modem inter-task communication.
  - APPs traces via the SIG_TEST_FILE_OUT signal.
- **HSL traces from USB Debug port** with 921600bps baud rate default: traces from any part of the system.
- **Database** is included in firmware package, which is *.dec format file.

GKI signals are focused on for issue troubleshooting.

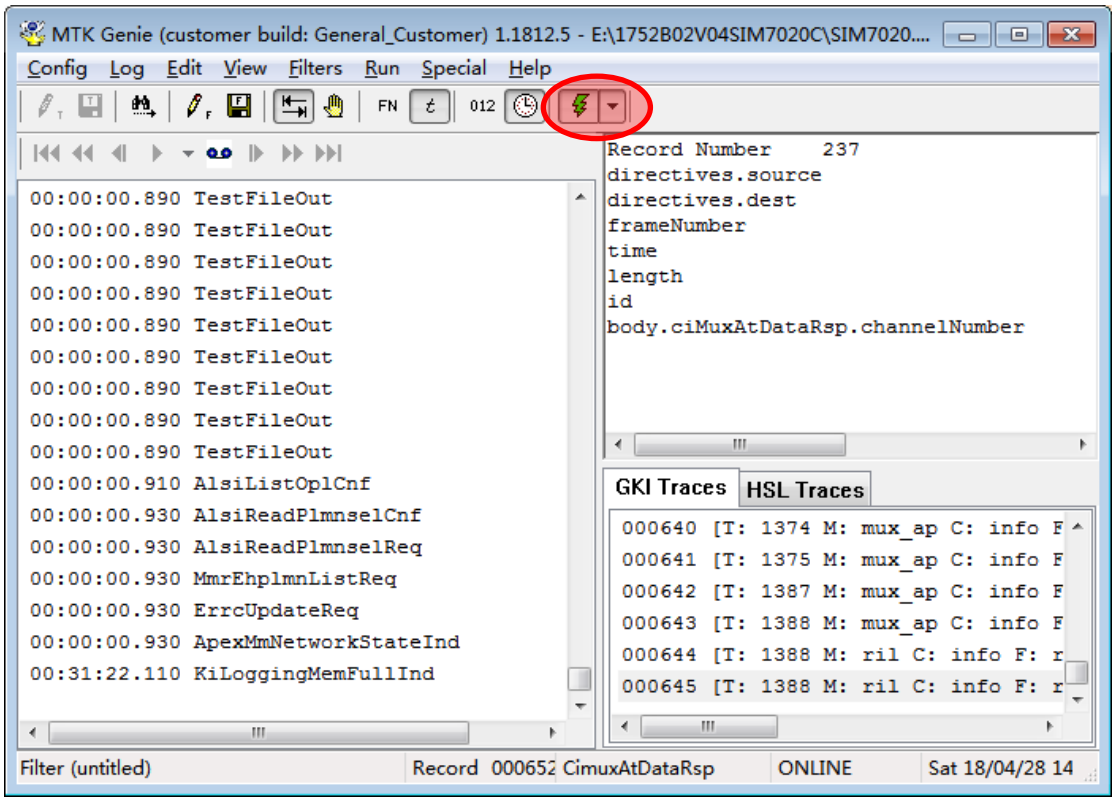
4) Filters configuration. Select “Filters->New Filter” from toolbar. And check all filters to move on.



5) Click on “Config->Save Config” from toolbar, save *.GNI configuration file.

3.2 logging

6) Click on green icon to start logging.



7) Once issue happened, wait for 10 seconds, then stop logging by clicking on green icon again.

8) Select “Log->Save As” from toolbar to save *.glp log file.

3.3 Grab memory dump

Once USB connected after module on, if there has dump, genie tool will grab it automatically, and save file to **genie\UeCoreDumps** folder which will be created automatically.

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