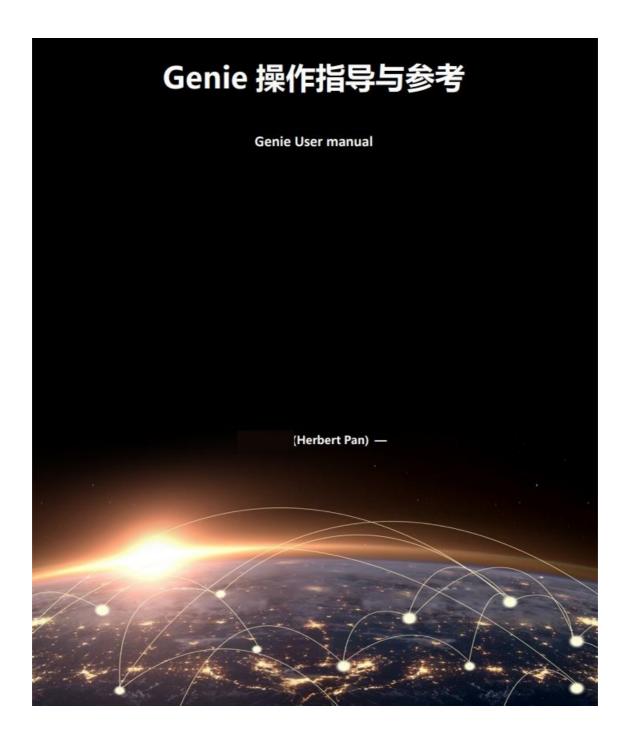


QUECTEL BC20 Genie Herbert Pan Module User Manual

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QUECTEL BC20 Genie Herbert Pan Module
User Manual



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1. Foreword

1.1 Suitable Condition

Tools	Manufacturer Revision	Applicable Module Type			
Genie	AT+CGMI/MTK_2625	BC20/BC26/BC66			

Note: This tool has a validity period. If you download it and use it, the validity period is expired, please contact Quectel to get it.

1.2 Related to Download

https://quectel123-

 $\underline{my.sharepoint.cn/:u:/g/personal/aefae_dom_quectel_com_cn/EQd_Uw6KR3RBjkYhP6HmlrUBiu3Ve385GFK}\\ \underline{cPgKuMEmY4Q?e=ZM62Qt}$

https://quectel123-

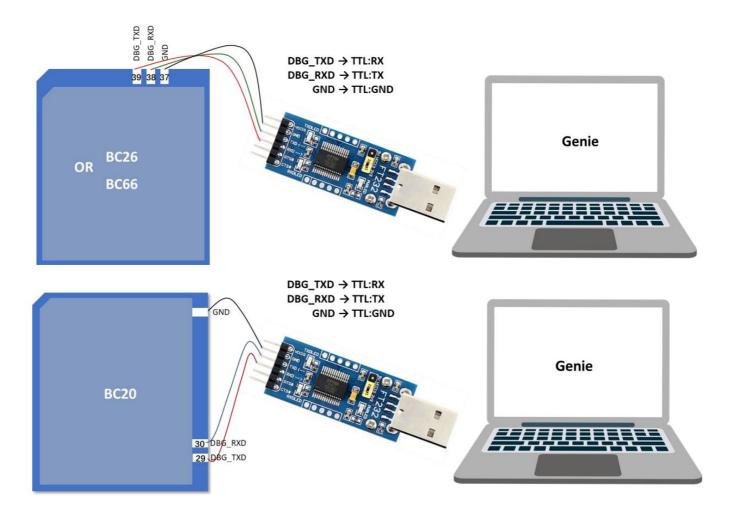
my.sharepoint.cn/:u:/g/personal/aefae_dom_quectel_com_cn/EW4QuNYKPJ9Gspu8DYAdDGIBL8TVG5z3-twrZOb5WTLSaw?e=fYUPPj

https://quectel123-

 $\underline{my.sharepoint.cn/:u:/g/personal/aefae_dom_quectel_com_cn/EYuJgu1Xu31Mq6EnzdLX7p0BkiJqKGlnX2JTll\\ \underline{hqJcOrRQ?e=j4adGb}$

1.3 Device Connection

Genie log If the module has been welded or debugged separately, it is recommended that you connect to the Genie and grab the log as shown below.



If TE-B corresponding to MTK module is used, from "Device Manager Port" to Select the second COM port (Silicon Labs Quad CP2108 USB to UART Bridge: Interface 1) corresponding to the GKI port, to Select the third COM port (Silicon Labs Quad CP2108 USB to UART Bridge: Interface 2) corresponding to HSL port.

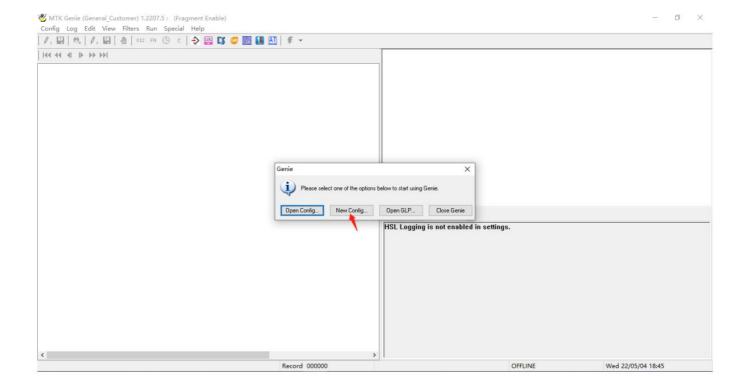
2. Genie Installation

Genie is installation-free and can be used after decompression. Run genie.exe in the MT2625_nbiot_tools_20220211_ exe_V1.2207.5nbiottoolscoregenie.



Genie icon

Click the genie icon above to start, and the initial display is as shown below; Select "New Config" for related Settings;



2.1 UART Connection

GKI(mandatory) corresponds to Debug port, HSL(optional, If AUX port is not pulled out, deselect it) corresponds to AUX port, and the. Dec file in the corresponding firmware file is imported into the Database, as shown below; "AT+EPORT=4", UART

To configure the baud rate, run the "AT+EPORT=4" command to query the baud rate supported by the UART port of the current module. And according to the return value and the corresponding table to set;

```
[2022-05-05_20:00:08:213] + PORT: 0

[2022-05-05_20:00:08:213] + PORT: 0

[2022-05-05_20:00:08:213] + PORT: 1

[2022-05-05_20:00:08:213] + PORT: 1

[2022-05-05_20:00:08:213] + PORT: 2

[2022-05-05_20:00:08:213] + PORT: 2

[2022-05-05_20:00:08:213] + PORT: 3

[2022-05-05_20:00:08:213] + PORT: 3

[2022-05-05_20:00:08:213] + PORT: 4

[2022-05-05_20:00:08:213] + PORT: 4

[2022-05-05_20:00:08:213] + PORT: 5

[2022-05-05_20:00:08:213] + PORT: 5

[2022-05-05_20:00:08:213] + PORT: 5

[2022-05-05_20:00:08:213] + PORT: 5
```

To change the baud rate of DEBUG port, refer to the following AT command and corresponding configuration list.

	variable			921600	(fixed)	
	URAT	URAT	URAT	URAT	USB	USB
+EPORT:	0	1	2	3	4	5

Baudrate_index	baudrate=	0	1					
			13576	2	3	4	5	
	baudrate	110	300	1200	2400	4800	9600	
Baudrate_index	baudrate=	6	7	8	9	10	11	12
	baudrate	19200	38400	57600	115200	230400	460800	92160
(4 (1 > >> >>)								
		Settings			×			
		UE Logging:						
		GKI COM35 I Silico	Debug on Labs Quad CP2108 US		00 ~			
		☑ Enable HSL I						
		/	on Labs Quad CP2108 US	Annual An	00 ~			
				the correspond				

2.2 USB Connection

If USB is used to output Log, please execute the following AT command and set as shown below; It is recommended that you run the command to close USB output after logging output.

Record 000000

%CURRENT_GENIE_EXE_PATH%\fragmentlog

Acquisition interval in Minute

OK Cancel

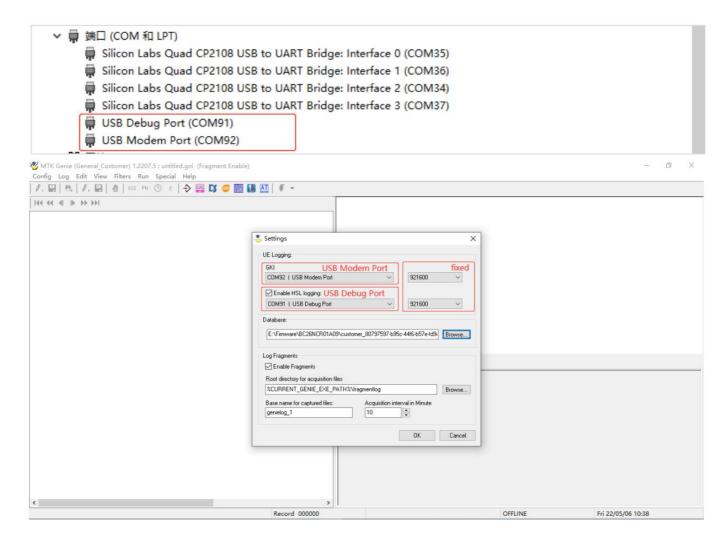
OFFLINE

Wed 22/05/04 18:51

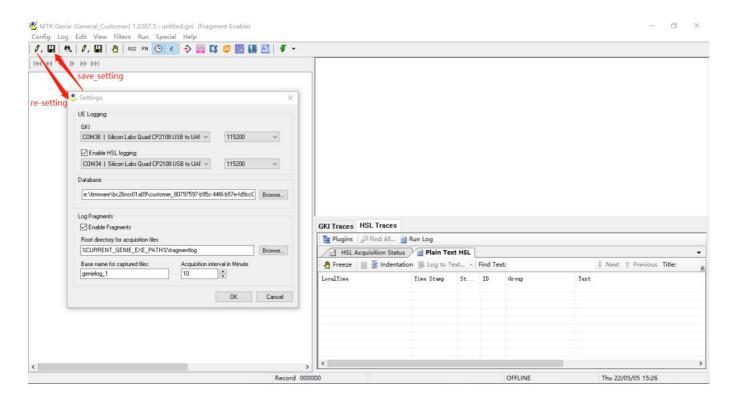
```
*****Open USB output*****
AT+EPORT=1,uls,5
AT+EPORT=1,emmi,4

*****Close USB output*****
AT+EPORT=1,uls,2
AT+EPORT=1,emmi,1
```

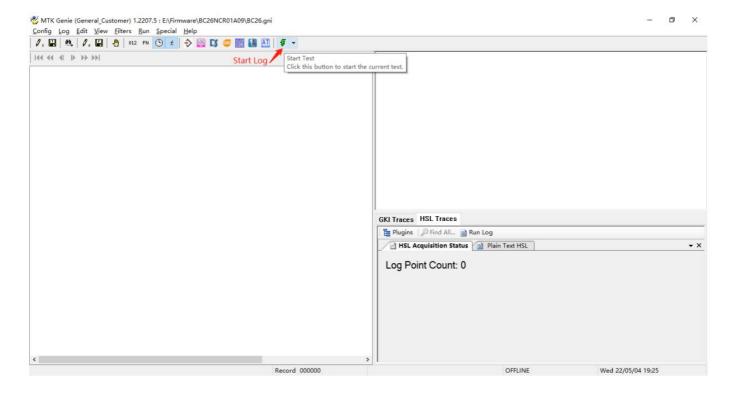
Power on or restart the device for the configuration to take effect. The ports displayed in device Manager are as follows:



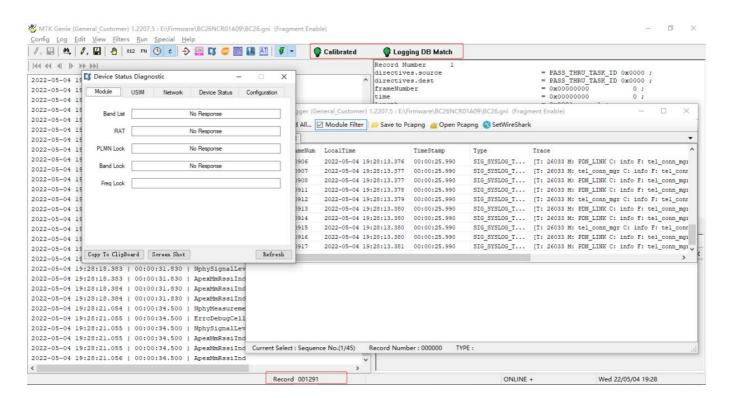
You can modify and Save the configuration parameters by using icon in the toolbar as shown below, or by "ConfigNew Config"/" ConfigSave Config "in the menu bar.

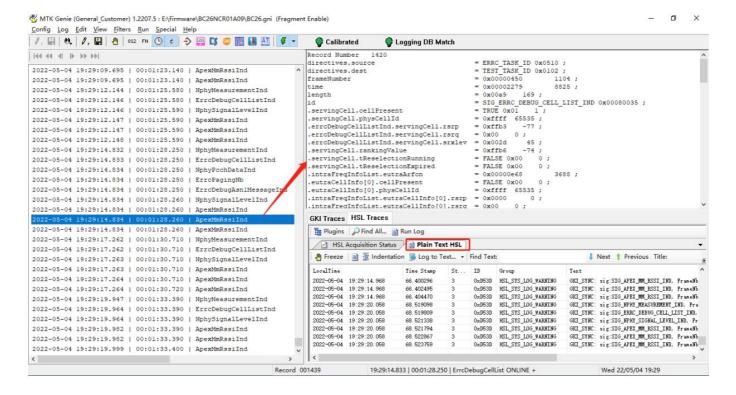


Then click the icon in the toolbar as shown below to start recording log; Note: After the device is powered on, you need to use POWERKEY to power on the module.

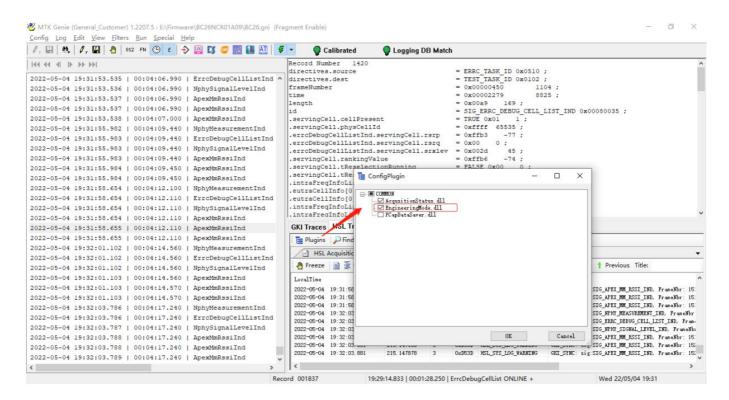


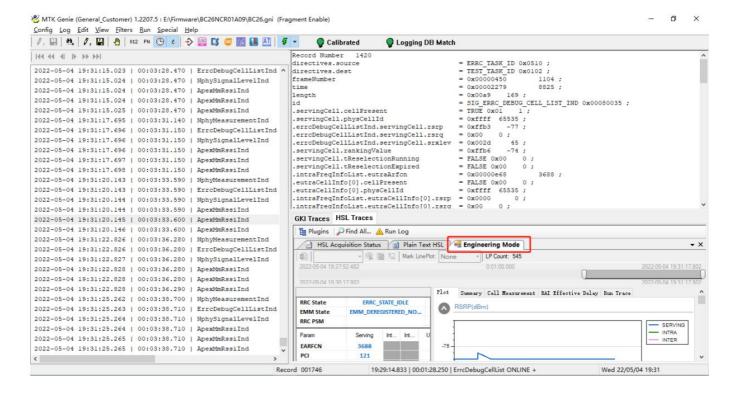
Then the window as shown below pops up;



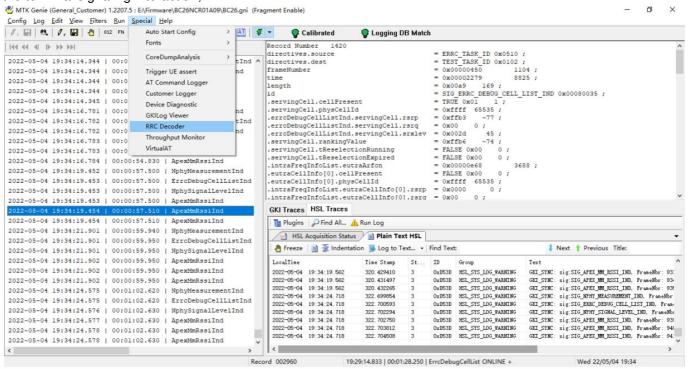


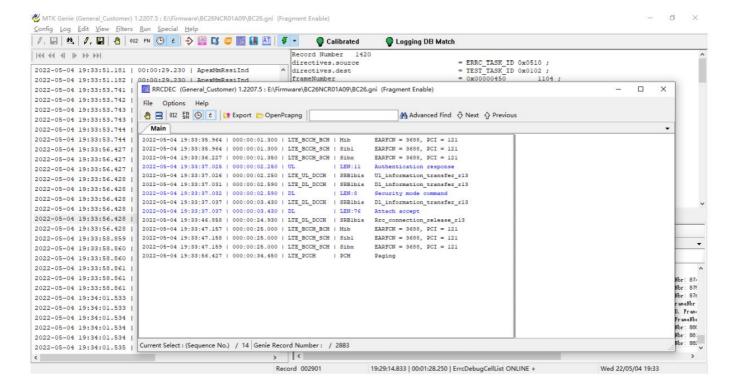
As shown below, the engineering mode in Genie is enabled to facilitate the observation of the signal reference received by the terminal.





If as shown below, through the menu bar "Special RRC Decoder", open genie signaling window, easy to observe the terminal signaling interaction;

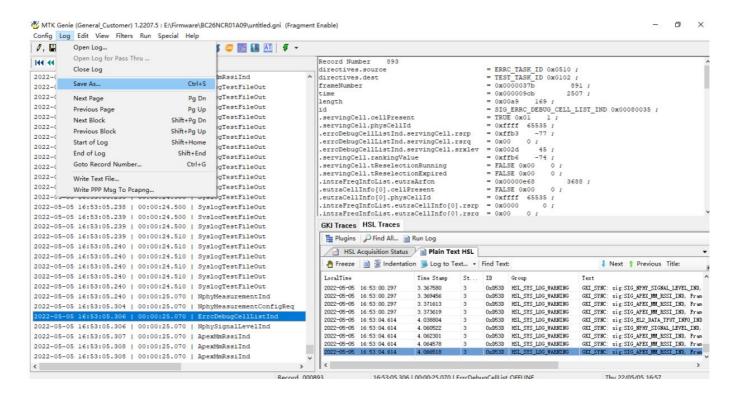




3. Save Log

3.1 Manual save

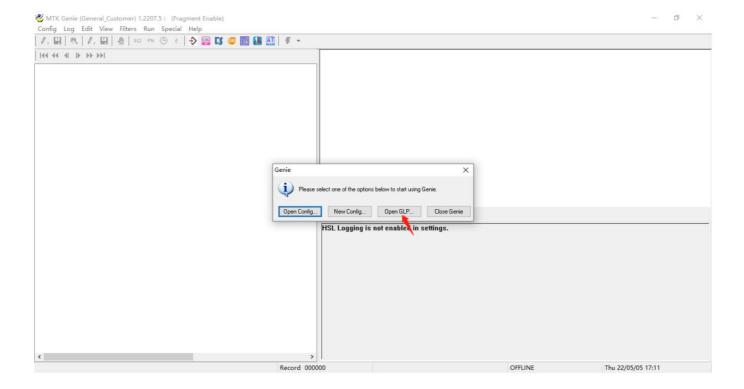
After the log is finished, Save the log xxx.glp by "LogSave As" in the menu bar, As shown below.



4. Common Analytical Application

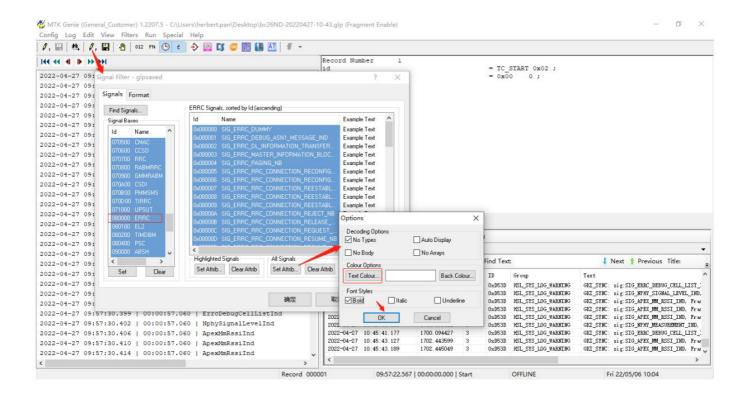
4.1 LOG (Import Log)

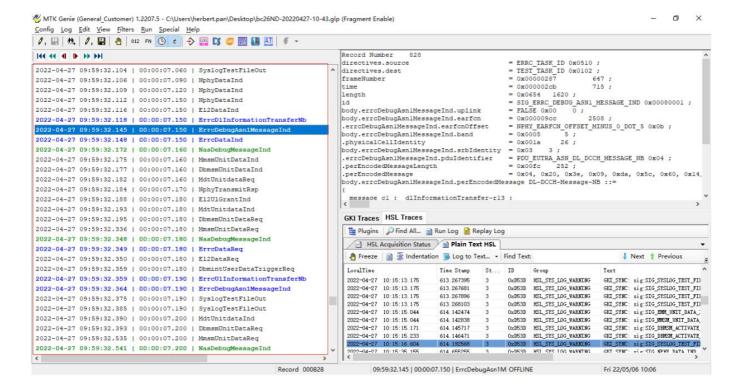
Click on the saved xxx. GLP file to open Log. Or after starting genie, import the Log as the below.



4.2 Color the Message

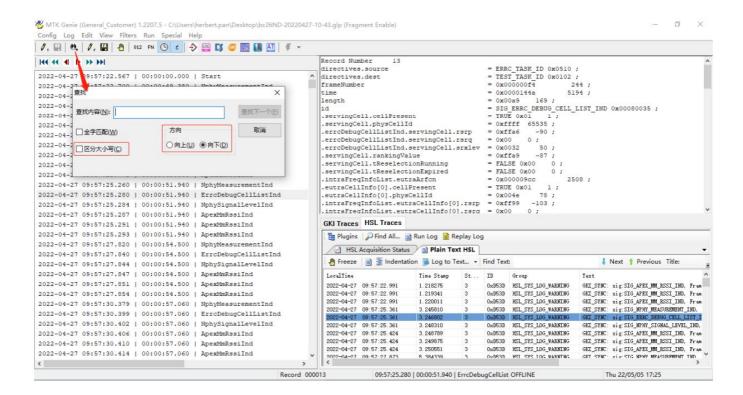
By using ICONS in the toolbar as shown below, different types of Log messages can be marked and colored, which makes it easier to identify and view.



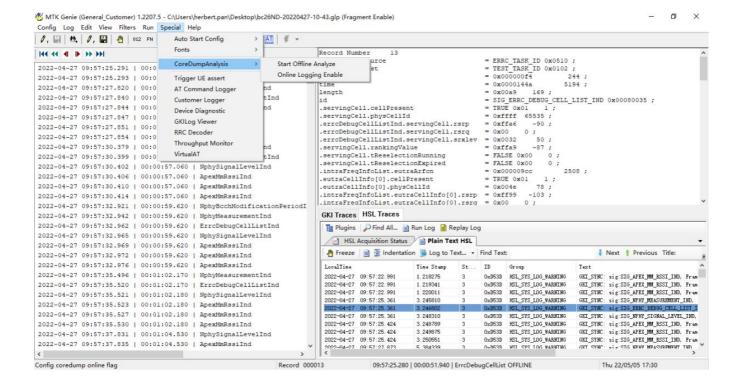


4.3 Filter Log

Open the Find/search window through the ICONS shown in the toolbar below, or through the menu bar "EditFind", note the case-sensitive options and search direction;

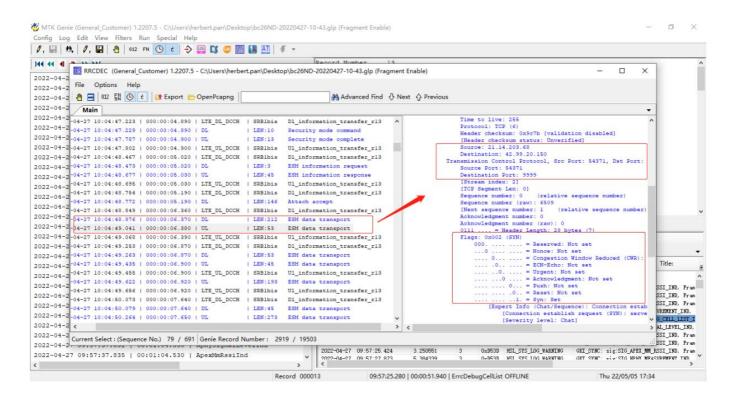


You can also use the menu bar "Special" to filter specific attribute logs, such as AT Command Logger;



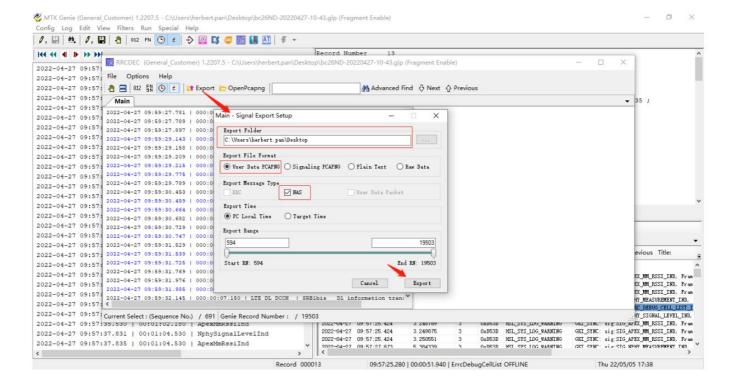
4.4 Data Analysis

In the menu bar "SpecialRRC Decoder" to open the window as shown below, you can AS/NAS layer message parsing;



4.5 Output Pcap

In the menu bar "SpecialRRC Decoder" to open the window as shown below, select "Export", and refer to the options below, Export Pcap file;



Documents / Resources



QUECTEL BC20 Genie Herbert Pan Module [pdf] User Manual BC26, BC66, Genie Herbert Pan Module, BC20 Genie Herbert Pan Module

Manuals+,