



QUECTEL Coolwatcher IoT Module User Manual

[Home](#) » [QUECTEL](#) » QUECTEL Coolwatcher IoT Module User Manual

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Contents [[hide](#)]

- 1 Foreword
- 2 Save Log
- 3 Common Analytical Application
- 4 Documents / Resources
- 5 Related Posts

Foreword

Suitable Condition

Tools	Manufacturer Revision	Applicable Module Type
Coolwatcher	AT+CGMI/RDA_89xx	BC25/BC32/BC35-GR/BC95-B5R/BC95-B8R/BC65/BC92

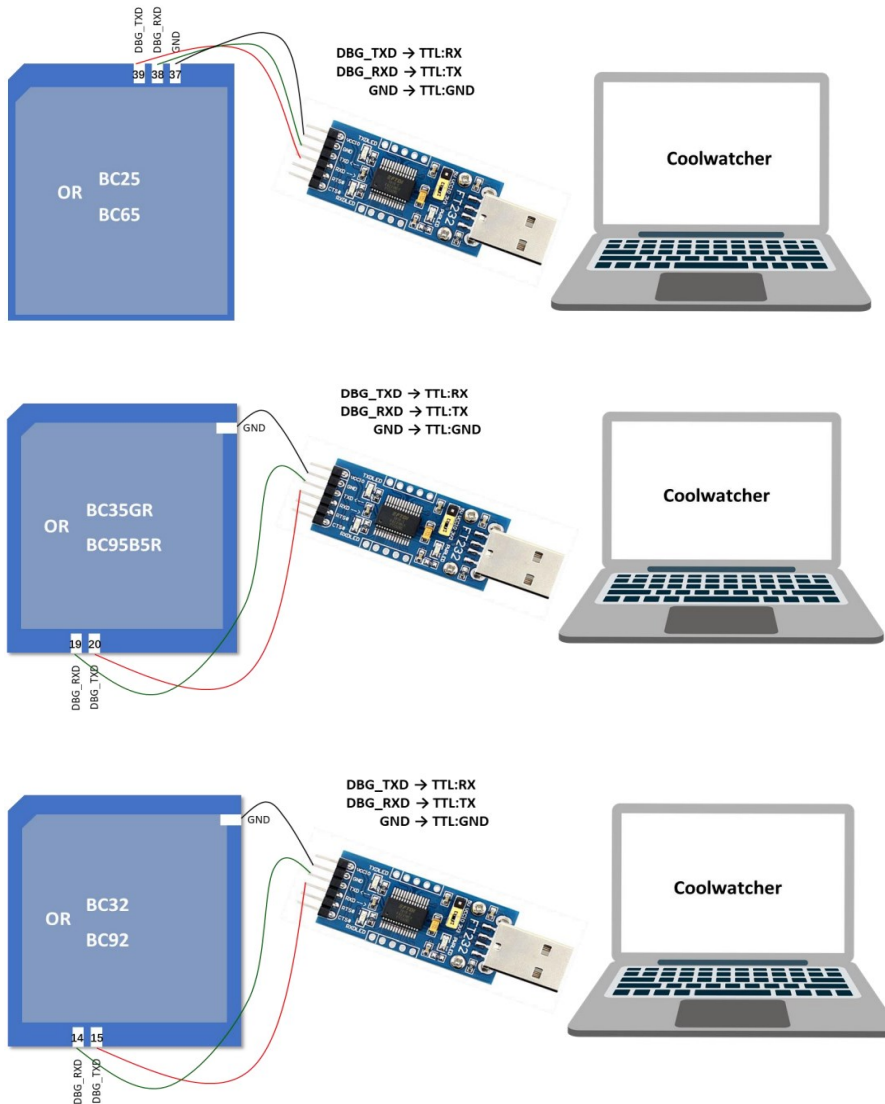
Related to Download

Coolwatcher

[https://quectel123 my.sharepoint.cn/:u:/g/personal/ae fae_dom_ quectel_com_cn/EUj4DJB D9VJrsdRa-DuIFYBTcNyLMrxoyu1EQgTvGShTA?e=QAqe4H](https://quectel123.my.sharepoint.cn/:u:/g/personal/ae fae_dom_ quectel_com_cn/EUj4DJB D9VJrsdRa-DuIFYBTcNyLMrxoyu1EQgTvGShTA?e=QAqe4H)

Device Connection

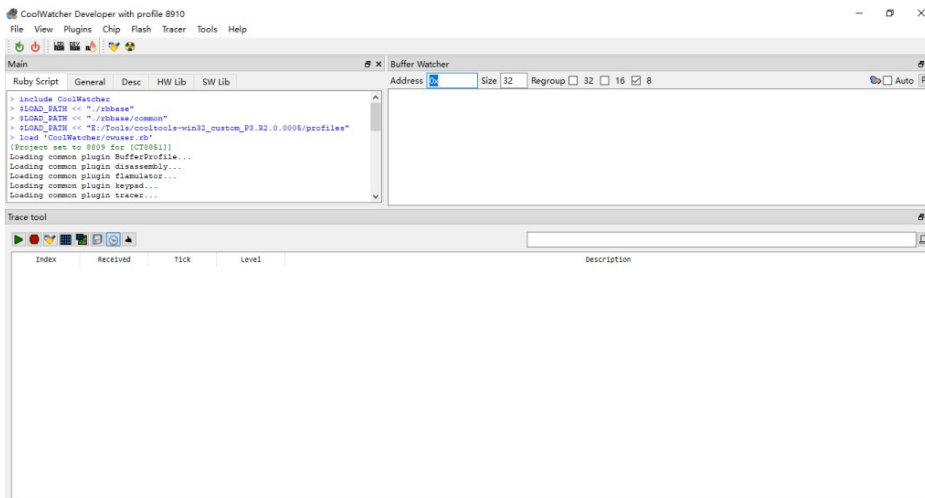
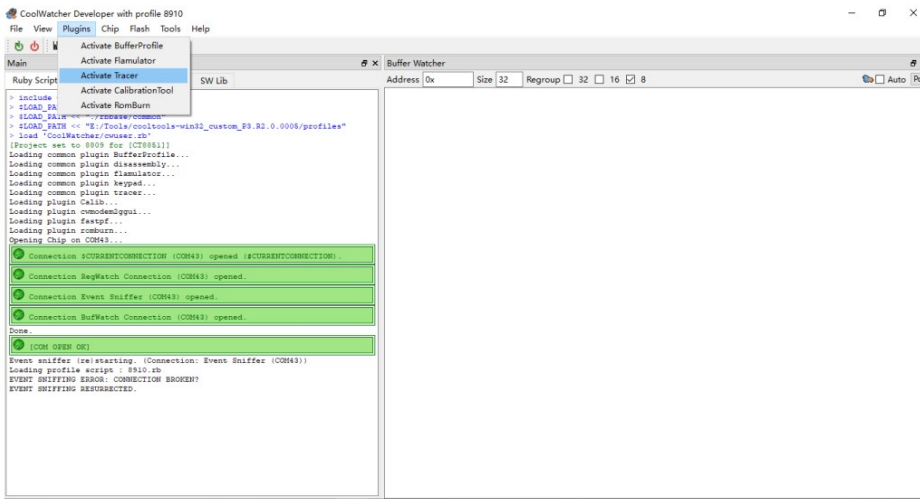
If the module has been welded or debugged separately, it is recommended that you connect to the Coolwatcher and grab the log as shown below. Note that the BC65/BC92 for overseas type, Tx/Rx and TTL_Tx/TTL_Rx directly connect, do not need to cross;



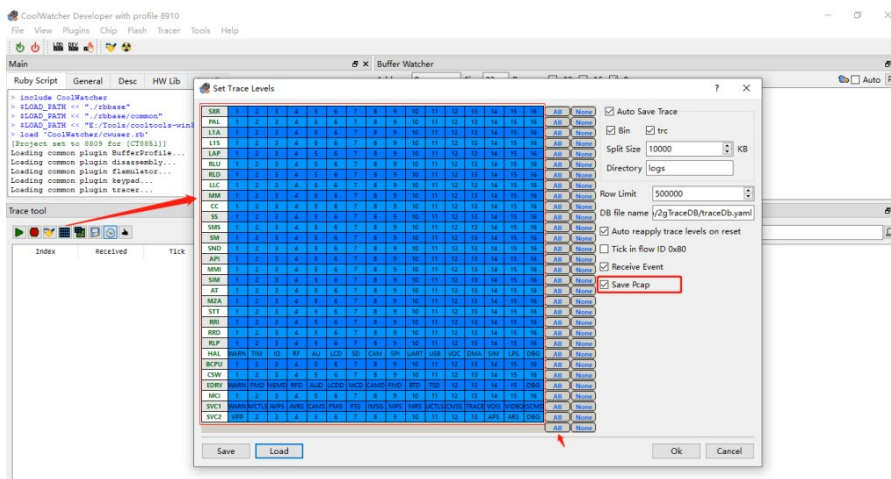
If TE-B corresponding to RDA module is used, from "Device Manager → Ports" to select the second COM port(XR21V1412 USB UART ChB).

Coolwatcher

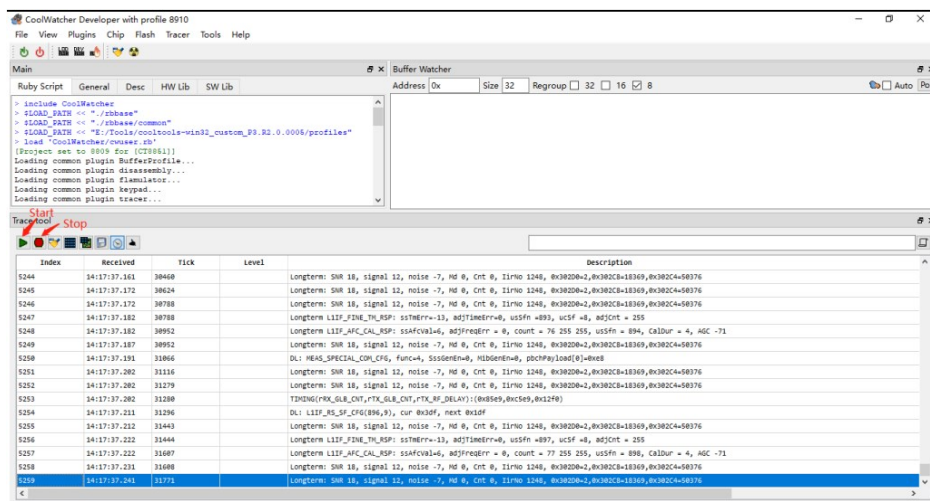
Coolwatcher is installation-free and can be used after decompression. Run coolwatcher_debughost.exe in the \cooltoolswin32_custom_P3.R2.0.0005 path.



Select “Tracer→Set Trace Levels” from the menu bar, or select all log types, and to select “Save Pcap”. Then to click OK;



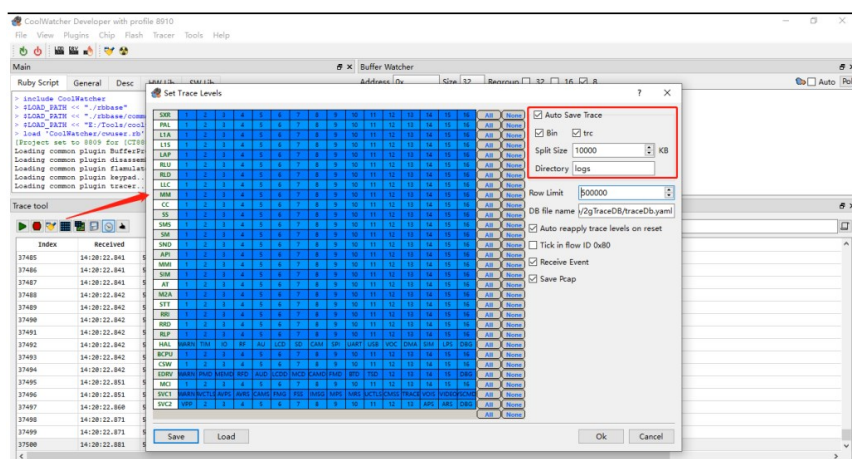
Choose “Tracer→Start Tracer/Stop Tracer” in the menu bar, or the icon as shown below, to Start tracing logs or Stop tracing.



Save Log

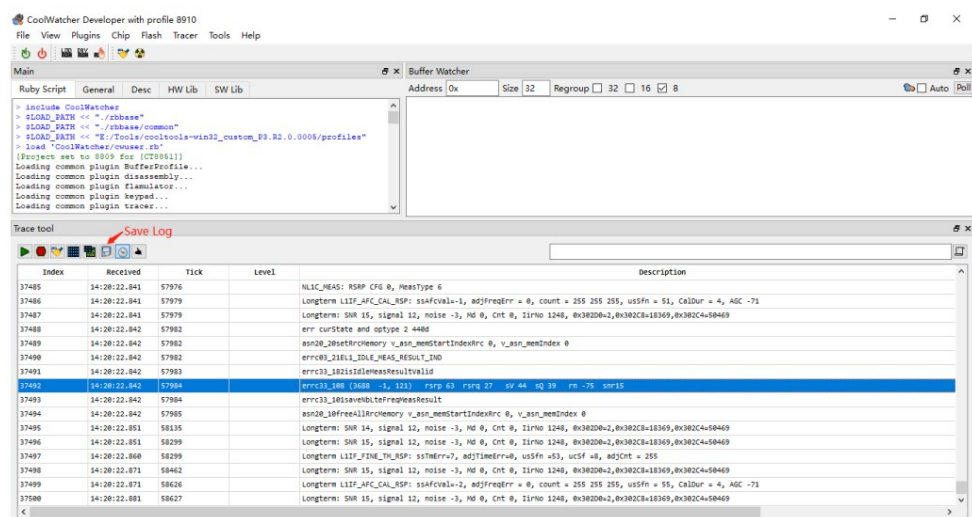
Automatically Save

Select “Tracer→Set Trace Levels” in the menu bar, or the icon as shown below, select Auto Save, and Set the save path. By default, log path \coolTools-win32_custom_p3.r2.0.0005 \logs; Where \ cooltools-win32_custom_p3.r2.0.0005 \logs\cap is saved as Pcap file;



Manual save

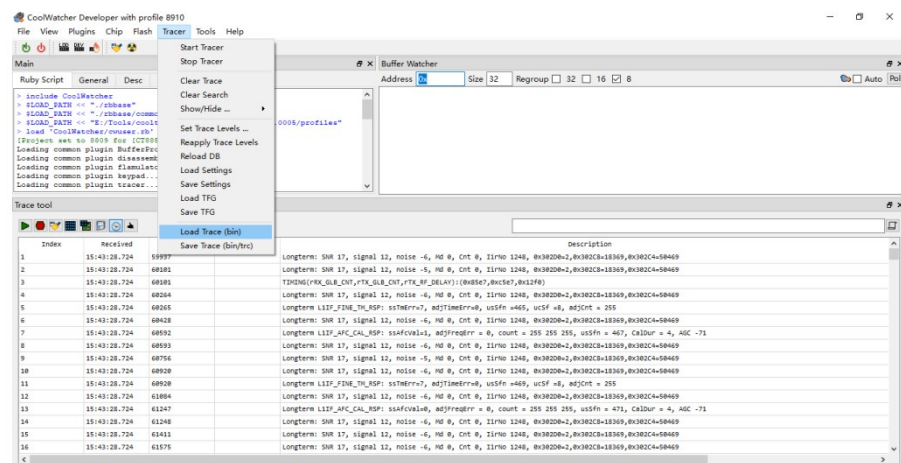
You can also choose “Tracer→Save” Trace from the menu bar, or Save the log as shown below.



Common Analytical Application

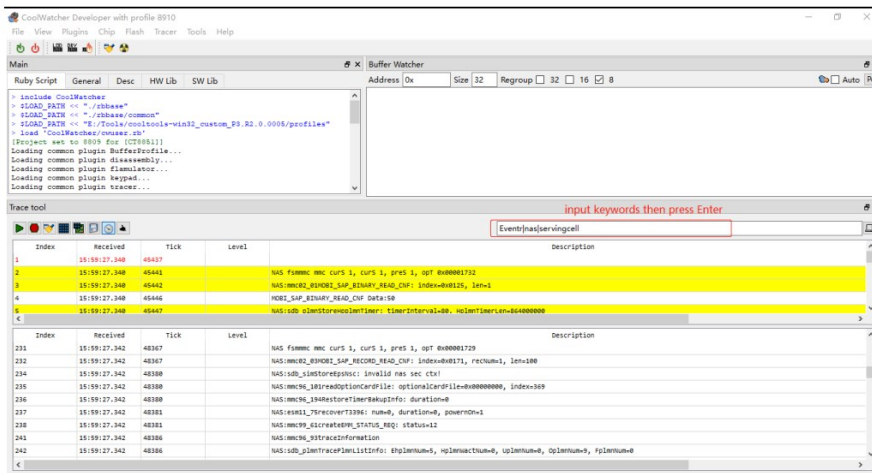
Import Log

Currently Notepad++ or UltraEdit is commonly used to view or analyze the Log; You can also import logs using Coolwatcher; On the menu bar, choose “Tracer→Load Trace (bin)” and select the corresponding xxx.bin file



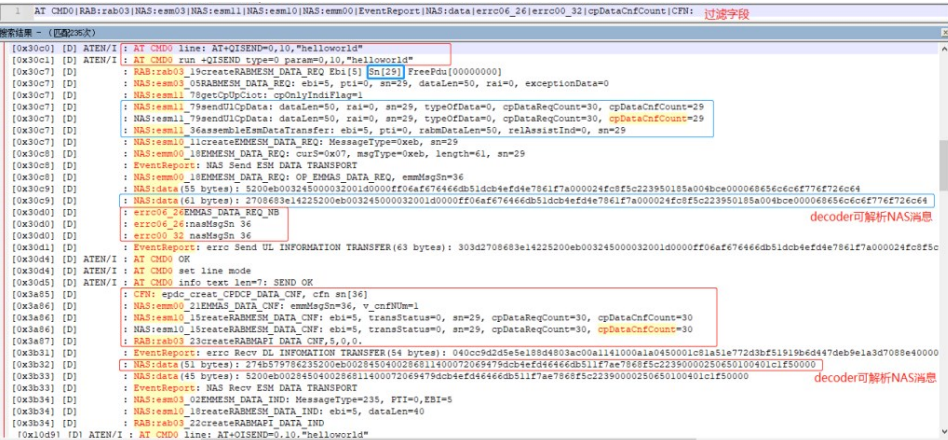
LOG Filter Log

Coolwatcher Log filter as shown below, input filtering keywords then press Enter, and support the use of a single vertical bar the regular filtering;



Common filtering keyword

Camp Cell	cell search Servcell frequency ServingRSRP
AT Command	AT CMD0
NAS/AS message	EventReport NAS:data
Data Analysis	AT CMD0 RAB:rab03 NAS:esm03 NAS:esm11 NAS:esm10 NAS:emm00 EventReport NAS:data errc06_26 errc00_32 cpDataCnfCount CFN:



Pcap(Output Pcap)

Select "Tracer→Set Trace Levels" from the menu bar, and to select "Save Pcap". Then to click OK; Pcap Default save\ path\cooltools-win32_custom_P3.R2.0.0005\logs\cap; Pcap can be analyzed using Wireshark for data interaction

log_pubendyn-1_220504-160837.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter

<Ctrl-F>

No.	Time	Source	Destination	Protocol	Length	Payload Info
1	2022-05-04 16:08:37.060000	10.163.3.209	211.136.17.107	DNS	73	Standard query 0x3aca A www.baidu.com
2	2022-05-04 16:08:37.501000	211.136.17.107	10.163.3.209	DNS	132	Standard query response 0x3aca A www.baidu.com CNAME www.a.shifen.
3	2022-05-04 16:08:37.568000	10.163.3.209	39.156.66.14	ICMP	66	Echo (ping) request id=0x0002, seq=1/256, ttl=255 (reply in 4)
4	2022-05-04 16:08:37.789000	39.156.66.14	10.163.3.209	ICMP	66	Echo (ping) reply id=0x0002, seq=1/256, ttl=52 (request in 3)
5	2022-05-04 16:08:37.918000	10.163.3.209	39.156.66.14	ICMP	66	Echo (ping) request id=0x0003, seq=2/512, ttl=255 (reply in 6)
6	2022-05-04 16:08:38.139000	39.156.66.14	10.163.3.209	ICMP	66	Echo (ping) reply id=0x0003, seq=2/512, ttl=52 (request in 5)
7	2022-05-04 16:08:38.227000	10.163.3.209	39.156.66.14	ICMP	66	Echo (ping) request id=0x0004, seq=3/768, ttl=255 (no response fo

<

>

> Frame 2: 132 bytes on wire (1056 bits), 132 bytes captured (1056 bits)


> Ethernet II, Src: GalilMot_1e:38:c1 (00:50:4c:1e:38:c1), Dst: Infolibr_2c:10:58 (00:50:48:2c:10:58)

> Internet Protocol Version 4, Src: 211.136.17.107, Dst: 10.163.3.209

> User Datagram Protocol, Src Port: 53, Dst Port: 21150

> Domain Name System (response)

Documents / Resources



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Coolwatcher IoT Module, Coolwatcher, IoT Module, Module