

QLog Linux&Android User Guide

UMTS/HSPA Module Series

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About the Document

History

Revision	Date	Author	Description
1.0	2013-10-14	Arno WANG	Initial
1.1	2018-05-28	Hunter LV	Update for new configuration file.

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1 Introduction

This document mainly introduces how to use the “QLog” tool to catch log data for the module in Linux and Android system.

2 Tool Package

The log tool package includes an executable file and a configuration file.

The files in tool package are shown as below:

- QLog
- Configuration file

The “QLog” is the executable file of Quectel log tool. The “filename.cfg” is a parameter configuration file.

NOTES

You must get the permission to run this program before operating Quectel log tool.

3 Introduction on Port

Before using log tool, you have to ensure that USB driver of the module has been installed successfully in your system first. After the module has been connected to the system, the system will list the corresponding ports. The tool catches log data from the DM port. The ports and the descriptors of devices corresponding to the system are listed as below:

- ttyUSB0-----DM port
- ttyUSB1-----NEMA port
- ttyUSB2-----AT port
- ttyUSB3-----Modem port
- ttyUSB4-----Wireless Ethernet Adapter port

NOTES

The descriptors of device files listed above are under the assumption that HOST is not connected to other USB virtual port devices. i.e., HOST is only connected to Quectel module.

You can input the following command under the terminal descriptor to query whether device file exists.

```
ls -al /dev/ttyUSB*
```


4 Parameters of Log Tool

Log program can specify the operating parameters in the command line, the detailed parameters are illustrated as below.

Table 1: Description of Command Parameters

Number	Parameter	Optional/Non-optional	Description
1	-p <port>	Optional	Specify the port, the default port is ttyUSB0, <port> can be specified as ttyUSB*, refer to Diag port (this module is the DM port)
2	-b <baudrate>	Optional	Specify the baudrate, default is 115200
3	-m <size>	Optional	Specify the max size of saving a single file, unit: MB, default is 20MB
4	-c <cache>	Optional	Specify the size of the buffer, unit: KB, default is 64KB
5	-s <path>	Optional	Specify the path to save the log data file, default is "qxdmlog" created under the current directory
6	-f <filename>	Non-Optional	Specify the name of the filter configuration file.

5 How to Use the Tool

This chapter main introduces the procedure of using Quectel log tool.

Quectel log tool can catch log data of the module in real time and save it into any directory of HOST (the program will create “qxdmlog” under the current directory by default to save the log). The log data can be used to analyze the abnormality of the module.

5.1. Operation Procedure

Put the program and configuration file into a directory of the HOST. For example, the current directory is “workspace”, you should switch to the “workspace”, and then operate log tool.

cd workspace	//Enter into the directory of the program
./QLog	//Operate log tool (You need to get the permission)

The following figure shows the entire operating process:

```
root@hunter-OptiPlex-780:/home/hunter/qlog# ./QLog -f default.cfg
Q_LOG: QLog Version: LTE_QLog_Linux&Android_V1.1.0

Q_LOG: start to catch log, configuration file<default.cfg>, log directory<./qxdmlog/qxdmlog_20180111162047/>
Q_LOG: port[/dev/ttyUSB0] found!
Q_LOG: port[/dev/ttyUSB0] connected!
Q_LOG: log file(./qxdmlog/qxdmlog_20180111162047/20180111162047.qmd1)
Q_LOG: received(1337.38KB), tick(10s), 133.74KB/s
```

Figure 1: Operating Process

If you want to end the program, please input the command below:

stoplog	//End the program
----------------	-------------------

```
Q_LOG: received(1337.38KB), tick(10s), 133.74KB/s
^CQ_LOG: stop catching log, directory<./qxdmlog/qxdmlog_20180111162047/>.
Q_LOG: end of program!
root@hunter-OptiPlex-780:/home/hunter/qlog# █
```

Figure 2: End the Program