

WCDMA UGxx

QLog Windows User Guide

UMTS/HSPA Module Series

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About the Document

History

Revision	Date	Author	Description
1.0	2015-06-16	Arno WANG	Initial
1.1	2015-09-10	Roddick SUN	1. Added description of catching log through Debug UART 2. Modified the default value and description of "ini" file

Contents

About the Document.....	2
Contents	3
Figure Index	4
1 Introduction	5
2 Tool Package	6
2.1. File List	6
3 Catch Log through USB Trace Port	7
3.1. Preconditions.....	7
3.2. Operation Procedure	7
4 Catch Log through Debug UART Port	9
4.1. Preconditions.....	9
4.2. Operation Procedure	9
5 Name Format of Qlog File	12

Figure Index

FIGURE 1: NOTICE FOR SENDING AT COMMAND TO ENABLE TRACE FUNCTION	7
FIGURE 2: MAIN INTERFACE	8
FIGURE 3: CHOOSE USB TRACE 1 PORT	8
FIGURE 4: START TO CATCH LOG	8
FIGURE 5: NOTICE FOR SENDING AT COMMAND TO ENABLE DEBUG FUNCTION	9
FIGURE 6: MAIN INTERFACE	10
FIGURE 7: NOTICE FOR SENDING AT COMMAND AND REBOOTING MODULE	10
FIGURE 8: SELECT UART PORT	10
FIGURE 9: START TO CATCH LOG	11

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1 Introduction

This document mainly introduces how to use the QLog tool to catch log data for the module in Windows XP/Vista/7/8 system.

This document is applicable to Quectel UGxx modules.

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2 Tool Package

The tool package of QLog includes an executable file and an configuration file.

2.1. File List

The file list of tool package is shown as below:

- QLog_UGxx_Windows_Vxx.exe----- Executable file of QLog, double-click to run the program.
- config.ini-----Configuration file (Normally, there is no need to change the default configurations)
- UGxx_LOG_TOOL.txt-----Log information after running QLog

“config.ini” file contains the following content:

- **LOGFILEUNITSIZE=100**: Indicates the cache size, default value is 100. Unit: KB. If the received data exceeds this size, it will be written into file.
- **SAVEINTOSINGLEFILE=0**: Indicates whether to save the log file as a single file or not. Default value is 0, which indicates not to save it as a single file, 1 indicates yes.
- **SINGLEFILEMAXSIZE=200**: Indicates the max size of a single file, default value is 200. Unit: MB. When SAVEINTOSINGLEFILE=0, and the saved log file exceeds the max size, a new file will be created.
- **DISPLAY_MENU=0**: Used to set whether to display “setting” menu or not. Default value is 0 (Not display). From “setting” menu, you can set the above three properties (After setting, the corresponding value in “ini” will change). If you want to display “setting”, please set the value to 1.
- **PORTTYPE=USB**: Port type. No need to set. It is used to record the default port when running Qlog.
- **CHOOSE_PACH=0**: Display log path or not, default value is 0 (Not to display), the log will be saved under the tool folder. 1 indicates to display the log path, you can set the path to save log.

NOTE

“config.ini” file should be put in the same directory of executable program.

3 Catch Log through USB Trace Port

3.1. Preconditions

1. Make sure USB driver has been installed on your system, and each USB port can work normally (including USB Trace Port 1 which is used to catch log), then copy the tool package to a path on your computer.
2. Enable Trace function by sending **"AT+TRACE=1"** via AT port.
3. Query whether the default value of **"AT+XSIO?"** is **"+XSIO: 0, *0"** or not, if not, execute **"AT+XSIO=0"** and reboot the module.

3.2. Operation Procedure

1. Double click "QLog_UGxx_Windows_Vxx.exe" to run the program, and make sure Trace function is enabled, then click "OK".

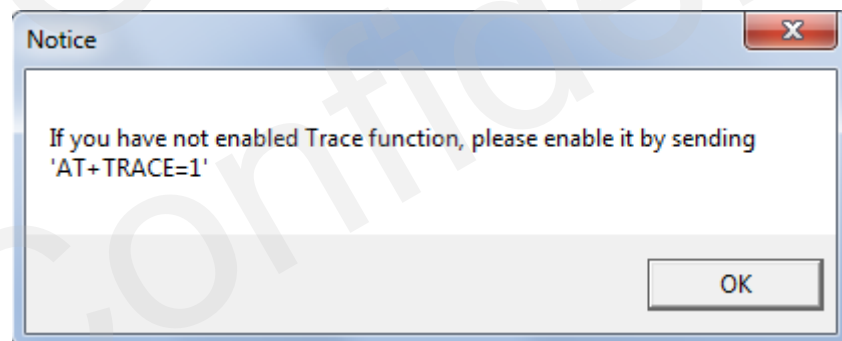


Figure 1: Notice for Sending AT Command to Enable Trace Function

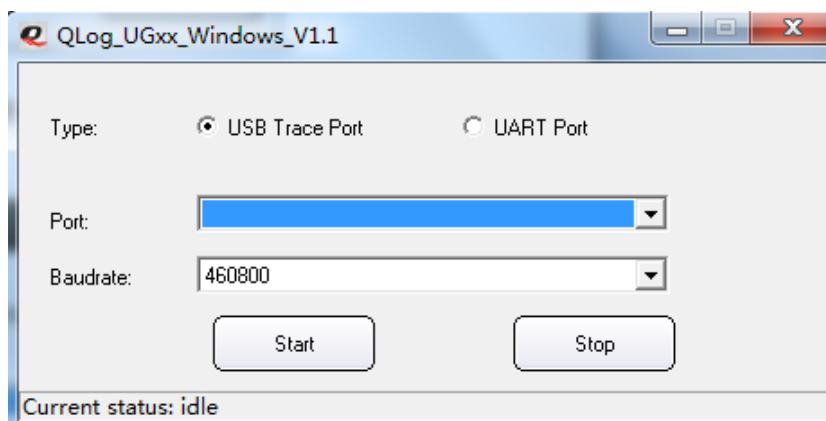


Figure 2: Main Interface

2. Connect module with USB cable, and power on module, choose USB Trace 1 port.

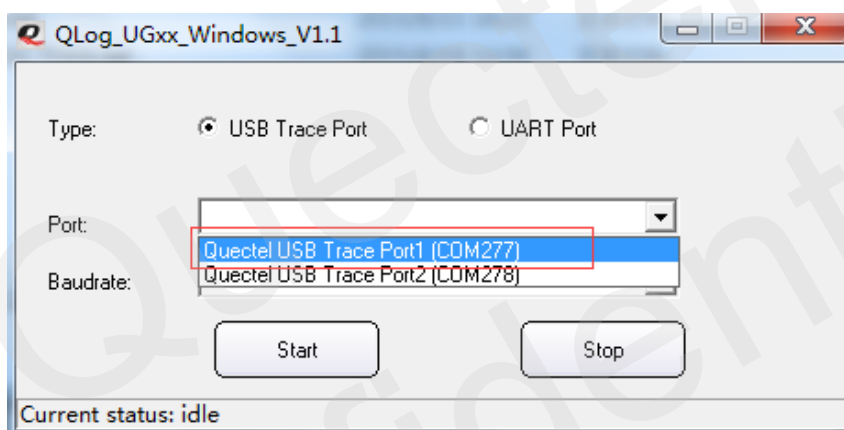


Figure 3: Choose USB Trace 1 Port

3. Click "Start" to catch log, log will be auto saved to the tool folder.

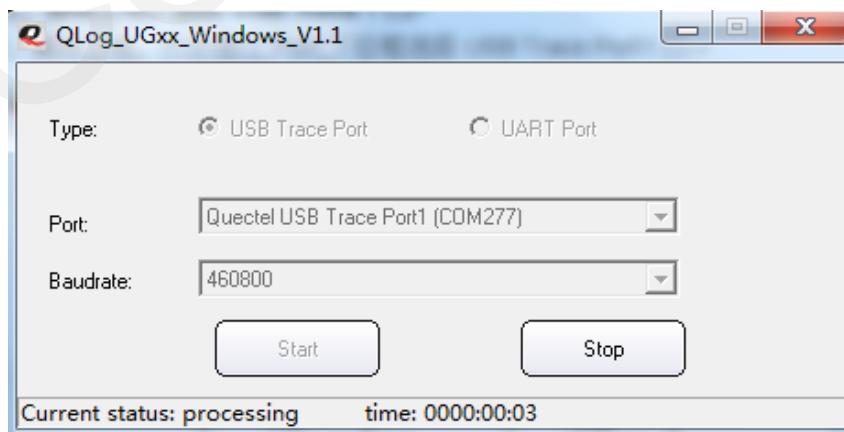


Figure 4: Start to Catch Log

4 Catch Log through Debug UART Port

4.1. Preconditions

1. Make sure Debug UART port is supported.
2. Enable Trace function by sending “**AT+TRACE=1**” via AT port.
3. Send AT command “**AT+XSIO=4;+TRACE=0;+TRACE=1,460800**” through USB AT port or Main UART port (this command takes effect after rebooting module), enable UART debug function, and reboot module.

4.2. Operation Procedure

1. Double click “QLog_UGxx_Windows_Vxx.exe” to run the program, and make sure Trace function is enabled, then click “OK”.

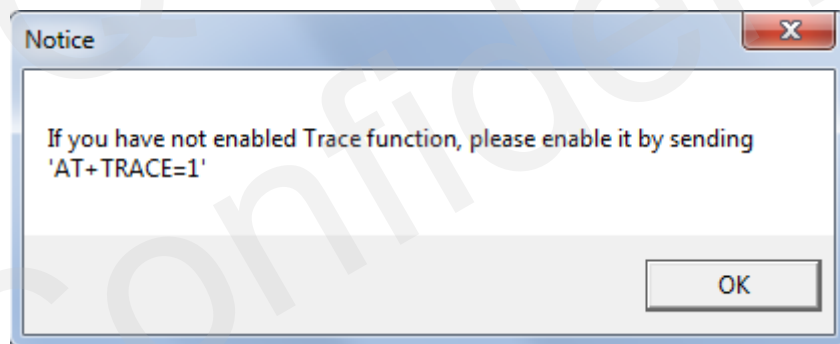


Figure 5: Notice for Sending AT Command to Enable Debug Function

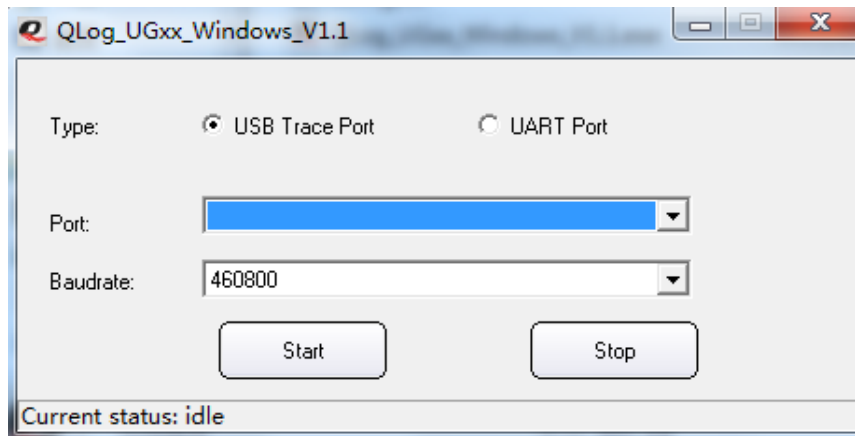


Figure 6: Main Interface

2. Connect the module with UART cable, and select UART port. It is recommended to select 4608000 as baudrate to speed up the process of catching log. Power on the module, make sure you have sent “AT+XSIO=4;+TRACE=0;+TRACE=1,460800” and rebooted the module, and then click “OK”.

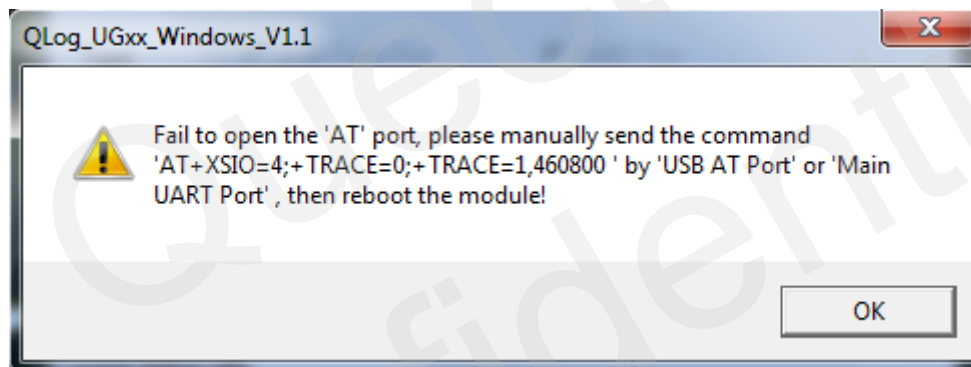


Figure 7: Notice for Sending AT Command and Rebooting Module

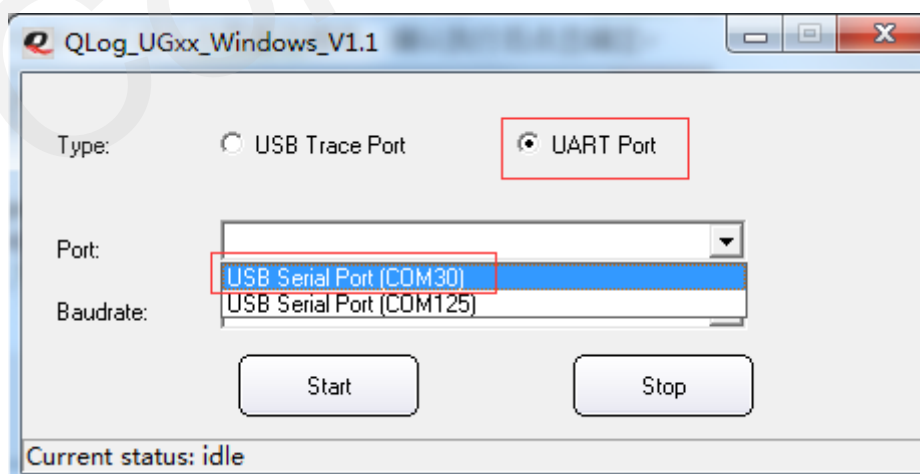


Figure 8: Select UART Port

3. Click “Start” to catch log, log will be auto saved to the tool folder.

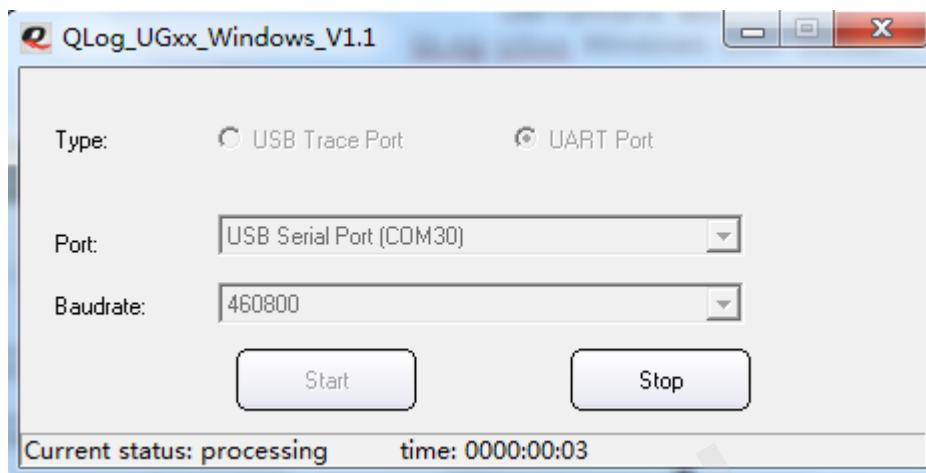


Figure 9: Start to Catch Log

NOTE

After setting to catch log through UART Debug port, if you want to catch log through USB Trace port, please send “**AT+XSIO=0**” and reboot module, and then refer to Chapter 3 to catch log.

5 Name Format of Qlog File

When the tool starts to catch log, a folder will be auto created under the tool directory, the name format is: "quectel_log_COMXX_YYYYMMDDHHmmSSWWW" (X: port, Y: year, M: month, D: day, H: hour, m: minute, S: second, W: microsecond; e.g. quectel_log_COM30_20130912044656000).

When the received data exceeds the "Unit size of saved log data", a new file will be created under the previous folder, format is: YYYYMMDDHHmmSSWWW.bin".

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