

EC2X&AG35-QuecOpen

ECM User Guide

LTE Module Series

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About the Document

History

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Introduction

1 Android/Linux supports USB multiple network card mode, such as rndis, ecm, rmnet and so on. This document introduces Quectel Module how to configure USB as ECM mode.

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Slave Terminal

2 ECM Configuration

If need configure Quectel module USB as ECM mode, just modify the usb_net_type directory in the file **2.1**system path and restart it. The specific operation is as following.

For EC2X:

```
root@mdm9607-perf:~# echo ecm > /sbin/usb/compositions/usb_net_type
root@mdm9607-perf:~# sync
root@mdm9607-perf:~# reboot
```

For AG35

```
root@mdm9607-perf:~# echo ecm > /data/usb/usb_net_type
root@mdm9607-perf:~# sync
root@mdm9607-perf:~# reboot
```

2.2.

ECM Check

After configuration, use following command to check whether USB configuration is successful.

```
root@mdm9607-perf:~# cat /sys/class/android_usb/android0/functions
diag,serial,ecm,ffs
```

Use following command to check ecm0.

2.3.

```
root@mdm9607-perf:~# ifconfig ecm0
ecm0      Link encap:Ethernet  HWaddr 3E:60:FD:FB:5B:97
```

Test Method

After ECM is successfully established, it can't directly connect to the Internet, needs calling at first. Please refer to **Quectel_EC2X&AG35-QuecOpen_Data_Call_Application_Guide**.

Host Terminal

If the host is Android platform, users need to open the macro **CONFIG_USB_NET_CDCETHER** when compiling the kernel.

3

If the host is Ubuntu, it can be operated without adding pid vid, and please plug USB devices. Users can directly see usb0 network interface through command **ifconfig a**. If the network card corresponding to the network segment cannot be displayed, please use the command `lsmod | grep "qmi_wwan"` to check whether the qmi_wwan driver is loaded. If this driver is loaded, please uninstall it. The specific commands are as following.

```
# sudo modprobe -r qmi_wwan
# sudo modprobe -r cdc_ether
# sudo modprobe -a cdc_ether
```

Then please re-plug USB cable to try.

Appendix A References

Table 1: Related Documents

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SN	Document Name	Remark
[1]	Quectel_EC2X&AG35-QuecOpen_Data_Call_Application_Guide	

Table 2: Terms and Abbreviations

Abbreviation	Description
RMNET	Remote Network
ECM	Ethernet Control Mode
MBIM	Mobile Broadband Interface Model
RNDIS	Remote Network Device Interface Specification