

ZTE MF212/206A/226 Linux Driver Installation Guide

Version 1.1

ZTEUSA CORPORATION

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Update History

Version	Update section	Type of Revision	Author	Release Date
V0.1	Full Section	Initial Version for MF212	Kehao Zhang	01/24/2011
V0.2	Section 4	Added USB Interface Description	Kehao Zhang	01/25/2011
V1.0	Section 5, 6	Tutorial For Dial-up Internet Connection	Kehao Zhang	01/26/2011
V1.1	Section 3.2	Add support to MF206A/226	Kehao Zhang	03/09/2011
Bak 1: The update history is added after this document is update.				
Bak 2: This version supports ZTE MF212/206A/226.				

1 Introduction

1.1 Scope

This Guide document describes how to install MF212/206A/226 Linux Driver by using the open source drivers on Ubuntu 10.10 with kernel 2.6.35.

1.2 Audience

This manual is intended for anyone wanting to use MF212/206A/226 in Linux OS.

2 Pre-installation

All ZTE devices must be connected to a terminal or computer via a USB or Mini-USB as described in the Operation Manual.

Open Applications -> Accessories -> Terminal

(It is important that you need an internet connection before you proceed. All the commands are displayed in italic format.)

3 Prepare the Operating System

3.1 Download the kernel source (5 - 10 minutes)

uname -r (Write down your version number. For example, if this command returns 2.6.35-24-generic-pae, then your version number is 2.6.35)

sudo apt-get install linux-source-2.6.35 kernel-package libncurses5-dev fakeroot (Replace 2.6.35 with your version number)

cd /usr/src

sudo tar xvjf linux-source-2.6.35.tar.bz2 (Replace 2.6.35 with your version number)

3.2 Modify the open source driver

cd /usr/src/linux-source-2.6.35/drivers/usb/serial (Replace 2.6.35 with your version number)

Edit option.c with root account:

sudo gedit option.c

In “/* ZTE PRODUCTS */” section,

Below “#define ZTE_VENDOR_ID 0x19d2”, add a new line:

```
#define ZTE_PRODUCT_ID 0x0117
```

In “static const struct usb_device_id option_ids[] = {“ section,

Below “{ USB_DEVICE(QUANTA_VENDOR_ID, QUANTA_PRODUCT_GLE) }”, add a new line:

```
{ USB_DEVICE(ZTE_VENDOR_ID, ZTE_PRODUCT_ID) },
```

Close and save option.c.

3.3 Compile the new kernel (1 - 2 hours)

sudo cp /boot/config-`uname -r` /usr/src/linux-source-2.6.35/.config (Type exactly or copy and paste to the terminal, remember to replace 2.6.35 with your version number)

sudo make menuconfig (just save, don't change anything)

sudo make modules_prepare

sudo make-kpkg clean

sudo fakeroot make-kpkg --initrd kernel_image kernel_headers

3.4 Install the new kernel (1 – 2 minutes)

sudo dpkg -i ../linux-image.deb*

3.5 Reboot (1 – 2 minutes)

sudo shutdown -r now

After reboot, select the new built kernel.

4 Check the driver

4.1 List of USB Interface

- Make sure MF212/206A/226 is plugged in.
- Open terminal, and type “*dmesg/grep -i ttyUSB*”
- You should see something like:
 - GSM modem (1-port) converter now attached to ttyUSB0
 - GSM modem (1-port) converter now attached to ttyUSB1

- GSM modem (1-port) converter now attached to ttyUSB2

4.2 USB Interface Description

MF212/206A/226 PID: 0x0117	0	Diag Interface	/dev/ttyUSB0
	1	GPS Interface	/dev/ttyUSB1
	2	Modem Interface	/dev/ttyUSB2

5 Test the Driver

5.1 Install minicom for AT Commands

sudo apt-get install minicom

5.2 Configure minicom

sudo minicom -s

Select “Serial port setup” -> Press “A” -> Change “Serial Device” to /dev/ttyUSB2
-> Press Enter -> Press Enter -> Select “Save setup as dfl” -> Press Enter -> Select “Exit”

Next time, you can just run the command as:

sudo minicom

5.3 Test AT commands

You’re welcome to use minicom for testing your AT commands. If you’re not sure how to use it press CRL + A and then Z to view help screen.

6 Configure the Modem for Internet Connection

6.1 Install wvdial for Dial-UP

sudo apt-get install wvdial

6.2 Configure wvdial

sudo wvdialconf /etc/wvdial.conf

6.3 Edit /etc/wvdial.conf file

[Dialer Defaults]

Init1 = ATZ

Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0

Password = null

Phone = *99# //dialing number

PPPP Path = /usr/sbin/pppd

Modem Type = Analog Modem

Stupid Mode = 1 //auto redial after call drop

Tonline = 0

Baud = 115200

New PPPD = 1

Modem = /dev/ttyUSB2

ISDN = 0

Username = null

6.4 Run Dial-up Application

sudo wvdial

6.5 Surf Internet

6.6 Quit

In the wvdial terminal, simply press CTL+C