



Huawei E367

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This guide is for Huawei Mobile Broadband E367 HSPA+ USB Rotator. This method should also work for many other huawei 3G adapters (E175 & E353 & E363 for example?).

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Kernel

usbserial needs to be built to your kernel or as a module:

```
root # modprobe usbserial
```

Install

```
root # emerge --ask sys-apps/usb_modeswitch
```

Configure

Add the following to the bottom of the config file.

FILE **/etc/usb_modeswitch.conf**

```
# Huawei E367
DefaultVendor=0x12d1
DefaultProduct=0x1446

TargetVendor=0x12d1
TargetProductList="1001,1406,140b,140c,1412,141b,14ac,1506"

CheckSuccess=20

MessageEndpoint=0x01
MessageContent="5553424312345678000000000000001106200000010000000000000000000000"
```

Run

```
root # usb_modeswitch -c /etc/usb_modeswitch.conf
```

Looking for default devices ...
 found matching product ID
 adding device
Found device in default mode, class or configuration (1)
Accessing device 002 on bus 002 ...
Getting the current device configuration ...
 OK, got current device configuration (1)
Using first interface: 0x00
Using endpoints 0x01 (out) and 0x81 (in)
Inquiring device details; driver will be detached ...
Looking for active driver ...
 No driver found. Either detached before or never attached

SCSI inquiry data (for identification)

 Vendor String: HUAWEI
 Model String: Mass Storage
Revision String: 2.31

USB description data (for identification)

Manufacturer: Huawei Technologies
 Product: HUAWEI Mobile
 Serial No.: not provided

Setting up communication with interface 0
Using endpoint 0x01 for message sending ...
Trying to send message 1 to endpoint 0x01 ...
 OK, message successfully sent
Resetting response endpoint 0x81
Resetting message endpoint 0x01
 Device is gone, skipping any further commands

Checking for mode switch (max. 20 times, once per second) ...
 (For a better success check provide target IDs or class)
 Original device vanished after switching

Mode switch most likely succeeded. Bye.

The modem shows up a different output in lsusb after running usb_modeswitch.

Before running usb_modeswitch :

```
root # lsusb
```

Bus 001 Device 005: ID 12d1:1446 Huawei Technologies Co., Ltd. E1552/E1800 (HSPA modem)

After running usb_modeswitch :

```
root # lsusb
```

Bus 002 Device 003: ID 12d1:1506 Huawei Technologies Co., Ltd. E398 LTE/UMTS/GSM Modem/Networkcard

Connecting

Now you should have three device nodes:

```
root # ls /dev/ttyUSB*
```

/dev/ttyUSB0 /dev/ttyUSB1 /dev/ttyUSB2

The modem should be /dev/ttyUSB2. You can now connect to internet using wvdial or NetworkManager (/wiki/NetworkManager).

net-misc/netifrc config

MTN South Africa

This is for mtn.co.za. APN is internet .

```
user $ ls -l /dev/serial/by-id/usb-HUAWEI_HUAWEI_Mobile-if??-port0
```

```
lrwxrwxrwx 1 root root 13 Mar  1 13:20 /dev/serial/by-id/usb-HUAWEI_HUAWEI_Mobile-if00-port0 -> ../../ttyUSB0
lrwxrwxrwx 1 root root 13 Mar  1 13:20 /dev/serial/by-id/usb-HUAWEI_HUAWEI_Mobile-if02-port0 -> ../../ttyUSB1
lrwxrwxrwx 1 root root 13 Mar  1 13:20 /dev/serial/by-id/usb-HUAWEI_HUAWEI_Mobile-if03-port0 -> ../../ttyUSB2
```

```
user $ gnokii --config /etc/gnokiirc-huawei_e367 --getnetworkinfo
```

```
GNOKII Version 0.6.29
Network      : MTN / Mobile Telephone Networks (South Africa)
Network code : 655 10
LAC          : 0000 (0)
Cell id      : 00000000 (0)
```

FILE `/etc/init.d/net`

```
## /dev/serial/by-id/usb-HUAWEI_HUAWEI_Mobile-if??-port0
dns_servers_ppp1="8.8.8.8 8.8.4.4"
config_ppp1="ppp"
link_ppp1="/dev/serial/by-id/usb-HUAWEI_HUAWEI_Mobile-if00-port0"
username_ppp1="guest"
password_ppp1=""
pppd_ppp1="lock noipdefault defaultroute defaultmetric 10000 noauth 460800"
phone_number_ppp1="*99#"
chat_ppp1="
    'ABORT' 'BUSY'
    'ABORT' 'ERROR'
    'ABORT' 'NO ANSWER'
    'ABORT' 'NO CARRIER'
    'ABORT' 'NO DIALTONE'
    'ABORT' 'Invalid Login'
    'ABORT' 'Login incorrect'
    'TIMEOUT' '10'
    '' 'ATZ'
    'OK' 'AT+CPIN?'
    'READY-AT+CPIN=1234\r\n\d\d\d\d\d-OK' 'ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0'
    'OK' 'AT+CGDCONT=1,\\\\"IP\\\\",\\\\"internet\\\\\\'
    'OK' 'ATDT\T'
    'CONNECT' ''
    '~' ''
"
```

app-mobilephone/gnokii

FILE **gnokiirc-huawei_e367**

[global]

```
model = AT
port = /dev/ttyUSB2
connection = serial
use_locking = yes
#serial_baudrate = 460800
serial_baudrate = 19200
```

user \$ gnokii -config /etc/gnokiirc-huawei_e367 -identify

```
GNOKII Version 0.6.29
IMEI      : 356793040724668
Manufacturer : huawei
Model     : E353
Product name : E353
Revision  : 21.137.01.00.864
```

FILE **gsms**

```
#!/bin/bash

device="huawei_e367"
config_file=~/.etc/gnokiirc-${device}
gnokii="gnokii -config ${config_file}"
pin=1234
output_file=~/.gnokii-${device}-getsms

# Check if phone is PIN locked
if ${gnokii} -getsecuritycodestatus
```

gsm-ussd

gsm-ussd site (<http://linux.zum-quadrat.de/downloads/>)

- `*123*888#` is for MTN South Africa and it returns your MSISDN.

```
user $ gsm-ussd -no-cleartext -m /dev/ttyUSB2 '*123*888#'
```

```
Yello! Your MSISDN is 2783XXXXXXX
```

- `*141*1#` is for MTN South Africa and it returns your balance.

```
user $ gsm-ussd -no-cleartext -m /dev/ttyUSB2 '*141*1#'
```

```
You have RXXXX.XX airtime, XXXX SMS and XXXX.XX MB of data. For detailed balances dial *141*1#.
```

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Category (/wiki/Special:Categories): Network devices (/wiki/Category:Network_devices)

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