

## Frequently Asked Questions

### Question

USB G3 Modem Huawei E220 + FreeBSD

### Answer

-B>=5<>5,>B:C40-B>A [forum.lissyara.su](http://forum.lissyara.su). B:C40=57=0N B.:.;568B  
A>E@0=5==K<. >GCNO2=>>G5=L A:>@><=5  
?@83>48BAO...

%>GC@0AA:070BL,:0:O=0?>;>28=C?>1>@>;MBC  
65;57O:C?>4FreeBSD7.0.

0#:@08=5=018@05B>1>@>BK3G?@>20945@Utel.72A53>  
A?5:B@0?@54>AB02;O5<>3>>1>@C4>20=8O  
4;OAB0F8>=0@=KE:><?LNB5@>2?>4E>48B<>45<HuaweiE220.  
>A;5?>4:;NG5=8O53>::><?LNB5@C<=52K:8=C;>  
B0:>5:

**umass0: HUAWEI Technologies HUAWEI Mobile, rev 1.10/0.00, addr 2umass0:  
Could not find interrupt indevice\_attach: umass0 attach returned 6**

@>A<>B@52A?8A>:USB-CAB@>9AB2O?>;CG8;;

**usbdevs -v**

**Controller /dev/usb0:**

**addr 1: full speed, self powered, config 1, OHCI root hub(0x0000),  
SiS(0x0000), rev 1.00**

**port 1 powered**

**port 2 addr 2: full speed, power 500 mA, config 1, HUAWEI  
Mobile(0x1003), HUAWEI Technologies(0x12d1), rev 0.00**

#4>1AB2>,A>740205<>5?@8=0AB@>9:5MB>3><>45<02  
28=45?>@0605BA2>59?@>AB>B>9. @8?>4:;NG5=882OC

Windows

>=A=0G0;0<>=B8@C5BAO:0:CD-ROM,3458<55BIDHUAWEI

Technologies(0x12d1)AB028BB0<A2>Q(:AB0B8>G5=L?@8;8G=>8  
C4>1=>=0?8A0=>).

>A;58=AB0;;OF88A@010BK205B?@>3@0<<:0,

>B:;NG0NI0AOC-DROM8?>4:;NG05B,A>1AB25==><>45<-HUAWEI

Mobile(0x1003)

```
> FreeBSD B 0 : > 3 > : > = 5 G = > = 5 ? @ > 8 A E > 4 8 B, 8 A 0 < < > 4 5 <
2 8 4 8 B A O : 0 : umass0.
> 3 C 3 ; 8 2 = 5 < = > 3 > O 2 K H 5 ; 8 7 4 0 = = > 9 A 8 B C 0 F 8 8 B 0 : 8 <
> 1 @ 0 7 > < :
5 > 1 E > 4 8 < > 4 > 1 0 2 8 B L 2 D 0 9 ; K, : > B > @ K 5 = 0 E > 4 O B A O 2
4 8 @ 5 : B > @ 8 8 /usr/src/sys/dev/usb A ; 5 4 C N I 8 5 8 7 < 5 = 5 = 8 O:
```

-----030008040502080503020600

Content-Type: text/plain;

name="patch-usbdevs"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline;

filename="patch-usbdevs"

--- usbdevs 2008-04-12 13:23:21.000000000 +0200

+++ usbdevs-patched 2008-04-23 00:39:29.000000000 +0200

@ @ -1387,6 +1387,7 @ @

/\* HUAWEI products \*/

product HUAWEI MOBILE 0x1001 Huawei Mobile

+product HUAWEI E220 0x1003 Huawei E220 HSDPA USB Modem

/\* HUAWEI 3com products \*/

product HUAWEI3COM WUB320G 0x0009 Aolynk WUB320g

-----030008040502080503020600

Content-Type: text/plain;

name="patch-usb\_subr.c"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline;

filename="patch-usb\_subr.c"

--- usb\_subr.c 2007-06-30 22:18:44.000000000 +0200

+++ usb\_subr.c-patched 2008-04-23 00:39:29.000000000 +0200

@ @ -526,6 +526,19 @ @

} static usbd\_status

+usbd\_set\_feature(usbd\_device\_handle dev, int feature)

+{

+ usb\_device\_request\_t req;

+

+ req.bmRequestType = UT\_WRITE;

+ req.bRequest = UR\_SET\_FEATURE;

+ USETW(req.wValue, 1);

+ USETW(req.wIndex, feature);

+ USETW(req.wLength, 0);

+ return (usbd\_do\_request(dev, &req, 0));

+

+

+static usbd\_status

usbd\_set\_config(usbd\_device\_handle dev, int conf)

{

```
usb_device_request_t req;
@@ -995,7 +1008,14 @@
    * We just did not find any drivers, that's all. The device is
    * fully operational and not harming anyone.
    */
+   DPRINTF(("usbd_probe_and_attach: generic attach failed\n"));
+
+   if (dev->quirks->uq_flags & UQ_FEATURE2) {
+       printf("%s: Enabling feature UHF_PORT_SUSPEND\n", device_get_nameunit(parent));
+       usbd_set_feature(dev, UHF_PORT_SUSPEND);
+   }
+   return (USB_NORMAL_COMPLETION);
}
```

-----030008040502080503020600

Content-Type: text/plain;

name="patch-usb\_quirks.h"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline;

filename="patch-usb\_quirks.h"

--- usb\_quirks.h 2007-06-29 23:07:41.000000000 +0200

+++ usb\_quirks.h-patched 2008-04-23 00:39:29.000000000 +0200

@@ -52,6 +52,7 @@

#define UQ\_AU\_NO\_FRAC 0x00000400 /\* don't adjust for fractional samples \*/

#define UQ\_AU\_INP\_ASYNC 0x00000800 /\* input is async despite claim of adaptive \*/

#define UQ\_BROKEN\_BIDIR 0x00002000 /\* printer has broken bidir mode \*/

+ #define UQ\_FEATURE2 0x4000 /\* requires the enabling of feature 2 \*/

#define UQ\_OPEN\_CLEARSTALL 0x04000 /\* device needs clear endpoint stall \*/

#define UQ\_HID\_IGNORE 0x00008000 /\* device should be ignored by hid class \*/

#define UQ\_KBD\_IGNORE 0x00018000 /\* device should be ignored by both kbd and hid class \*/

-----030008040502080503020600

Content-Type: text/plain;

name="patch-usb\_quirks.c"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline;

filename="patch-usb\_quirks.c"

--- usb\_quirks.c 2008-04-20 10:52:13.000000000 +0200

+++ usb\_quirks.c-patched 2008-04-23 00:39:29.000000000 +0200

@@ -112,6 +112,8 @@

ANY, { UQ\_KBD\_IGNORE } },

{ USB\_VENDOR\_METAGEEK, USB\_PRODUCT\_METAGEEK\_WISPY24X,

ANY, { UQ\_KBD\_IGNORE } },

+ { USB\_VENDOR\_HUAWEI, USB\_PRODUCT\_HUAWEI\_E220,

+ ANY, { UQ\_FEATURE2 } },

{ 0, 0, 0, { 0 } }

};

-----030008040502080503020600

Content-Type: text/plain;

```
name="patch-ubsa.c"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline;
filename="patch-ubsa.c"
--- ubsa.c    2008-04-12 13:23:21.000000000 +0200
+++ ubsa.c-patched    2008-04-23 00:39:29.000000000 +0200
@@ -236,6 +236,8 @@
    { USB_VENDOR_OPTION, USB_PRODUCT_OPTION_GT3GPLUS },
    /* Huawei Mobile */
    { USB_VENDOR_HUAWEI, USB_PRODUCT_HUAWEI_MOBILE },
+   /* Huawei Mobile E220 */
+   { USB_VENDOR_HUAWEI, USB_PRODUCT_HUAWEI_E220 },
    /* Qualcomm, Inc. ZTE CDMA */
    { USB_VENDOR_QUALCOMM, USB_PRODUCT_QUALCOMM_CDMA_MSM },
    { 0, 0 }
-----030008040502080503020600--
```

```
> A; 5 8 7 < 5 = 5 = 8 O D 0 9; > 2 = 5 > 1 E > 4 8 < > B 0 : 6 5 2 K : ; N G 8 B L 2
O 4 @ 5 ? > 4 4 5 @ 6 : C C A B @ > 9 A B 2 umass,
0 G B > 1 ? > B > < D ; 5 H : 8 => @ < 0 ; L => @ 0 1 > B 0 ; 8 4 > 1 0 2 8 B L 2
/boot/loader.conf
```

```
ubsa_load="YES"
umass_load="YES"
```

```
5 @ 5 : > < ? 8 ; 8 @ C 5 < O 4 @ > , ? 5 @ 5 7 0 3 @ C 6 0 5 < A O 8 ? @ > 2 5 @ O 5 <
? > 4 3 @ C 7 8 ; 8 A L ; 8 < > 4 C ; 8:
```

## #kldstat

Id	Refs	Address	Size	Name
1	16	0xc0400000	91413c	kernel
2	1	0xc0d15000	7174	umass.ko
3	1	0xc0d1d000	342c	umodem.ko
4	3	0xc0d21000	3518	ucom.ko
5	1	0xc0d25000	3280	ubsa.ko
6	1	0xc0d29000	6a32c	acpi.ko
7	1	0xc4894000	22000	linux.ko

```
> A; 5 ? > 4 : ; N G 5 = 8 O < > 4 5 < 0 A 8 A B 5 < 0 = 0 : > = 5 F - B > 2 K 4 0 ; 0
4 > ; 3 > 6 4 0 = = > 5:
```

```
ucom0: at uhub0 port 2 (addr 2) disconnected
ucom0: detached
ucom0: <HUAWEI Technologies HUAWEI Mobile, class 0/0, rev 1.10/0.00,
addr 2> on uhub0
ucom0: Could not find interrupt in device_attach: ucom0 attach returned 6
ucom0: <HUAWEI Technologies HUAWEI Mobile, class 0/0, rev 1.10/0.00,
addr 2> on uhub0
ucom0: Could not find interrupt in device_attach: ucom0 attach returned 6
uhub0: Enabling feature UHF_PORT_SUSPEND
ucom0: at uhub0 port 2 (addr 2) disconnected
ucom0: <HUAWEI Technologies HUAWEI Mobile, class 0/0, rev 1.10/0.00,
addr 2> on uhub0
```

```
> A; 5 MB > 3 > = 0 A B @ > 8 2 ppp A > 5 4 8 = 5 = 8 5 O ? K B 0 N A L
A > 5 4 8 = 8 B L A O A 8 = B 5 @ = 5 B > < A B 0 : 8 < 2 > B D 0 9 ; > < ppp.conf
```

```
default:
set log Phase Chat LCP IPCP CCP tun command
utel:
set device /dev/cuaU0
set speed 57600
set phone *99#
set authname Utel
set authkey
add default HISADDR
enable dns
```

```
< 5 = O > B A B @ 5 ; 8 2 0 5 B A B 0 : > 9 2 > B > H 8 1 : > 9 :
```

```
May 15 17:44:49 Notebook ppp[1215]: tun0: LCP: deflink: SendConfigReq(1)
state = Req-Sent
May 15 17:44:49 Notebook ppp[1215]: tun0: LCP: ACFCOMP[2]
May 15 17:44:49 Notebook ppp[1215]: tun0: LCP: PROTOCOMP[2]
May 15 17:44:49 Notebook ppp[1215]: tun0: LCP: ACCMAP[6] 0x00000000
May 15 17:44:49 Notebook ppp[1215]: tun0: LCP: MRU[4] 1500
May 15 17:44:49 Notebook ppp[1215]: tun0: LCP: MAGICNUM[6] 0x60f1721b
May 15 17:44:52 Notebook ppp[1215]: tun0: LCP: deflink: LayerFinish
May 15 17:44:52 Notebook ppp[1215]: tun0: LCP: deflink: State change
Req-Sent --> Stopped
May 15 17:44:52 Notebook ppp[1215]: tun0: LCP: deflink: State change
Stopped --> Closed
May 15 17:44:52 Notebook ppp[1215]: tun0: LCP: deflink: State change
```

*Closed --> Initial*

*May 15 17:44:52 Notebook ppp[1215]: tun0: Warning: deflink: Unable to set physical to speed 0*

*May 15 17:44:52 Notebook ppp[1215]: tun0: Phase: deflink: Disconnected!*

>4>1=0O B5<0 C65 >?8AK20;0AL 2>B BCB , => =8G53> 87 =5Q  
<=5 =5 ?>4>H;>. ABL 25 @>OB=>ABL, GB> O ? @>?CAB8;;  
:0:CN-B> :><0=4C 8=8F80;870F88, B.: =0 A09B5 C:07K205BAO  
B>G:0 4>ABC?0, => 2>B B0:>5 4>?>;=5=85 2 ppp.conf

*set dial "ABORT BUSY ABORT NO\SCARRIER TIMEOUT 5 \" AT OK-AT-OK ATZ OK*  
*\*

*AT+CGDCONT=1,\"IP\", \"3g.utel.ua\", \"0.0.0.0\",0,0 OK*  
*AT+CGATT=1 OK \dATDT\T TIMEOUT 40 CONNECT"*

=5 ? @ 8=5A;> 65;0==>3> @ 57C;LB0B0.

PS: !B0BLO =5A5B 8=D> @<0F8>==K9 E0@0:B5@ >=;8. ?5 @ 2CN  
>G25 @ 54L 206=> 70?>;CG8BL CA1 <>45< :0: C2845==K9  
D@59 45209A, 0 745AL MB> ?>;CG05BAO. 40;LH5 C65 A0<8  
@ 0715 @ 5<AO, B0: 254L?

---

## Details

*Info Sunday 14 March 2010 - 18:12:51 by*

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