

## Frequently Asked Questions

### Question

USB G3 Modem Huawei E220 + FreeBSD

### Answer

-B> = 5 <> 5, > B: C 40- B> A [forum.lissyara.su](http://forum.lissyara.su). B: C 40 = 5 7 = 0 N B.: ; 5 6 8 B  
A> E @ 0 = 5 == K<. > G C N O 2 ==> > G 5 = L A:> @> <= 5  
? @ 8 3> 4 8 B A O...

%> G C @ 0 A A: 0 7 0 B L, : 0: O = 0 ?>;> 2 8 = C ?> 1> @>; M B C  
6 5; 5 7 O: C ?> 4 F r e e B S D 7.0.

0 #: @ 0 8 = 5 = 0 1 8 @ 0 5 B > 1> @> B K 3 G ? @> 2 0 9 4 5 @ U t e l. 7 2 A 5 3>  
A ? 5: B @ 0 ? @ 5 4> A B 0 2; O 5<> 3> > 1> @ C 4> 2 0 = 8 O  
4; O A B 0 F 8>= 0 @ = K E :><? L N B 5 @> 2 ?> 4 E> 4 8 B <> 4 5< H u a w e i E 2 2 0.  
> A; 5 ?> 4:; N G 5 = 8 O 5 3> : :><? L N B 5 @ C <= 5 2 K: 8 = C ;>  
B 0:> 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 @ 5 2 A ? 8 A>: U S B- C A B @> 9 A B 2 O ?>; C G 8 ;:

**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> 1 A B 2>, A> 7 4 0 2 0 5<> 5 ? @ 8 = 0 A B @> 9: 5 M B> 3> <> 4 5< 0 2  
2 8 = 4 5 ?> @ 0 6 0 5 B A 2> 5 9 ? @> A B> B> 9. @ 8 ?> 4:; N G 5 = 8 8 2 O C

Windows

> = A = 0 G 0; 0 <> = B 8 @ C 5 B A O : 0: C D- R O M, 3 4 5 8< 5 5 B I D H U A W E I

Technologies(0x12d1) A B 0 2 8 B B 0< A 2> Q (: A B 0 B 8 > G 5 = L ? @ 8; 8 G=> 8  
C 4> 1=> = 0 ? 8 A 0=>).

> A; 5 8 = A B 0;; O F 8 8 A @ 0 1 0 B K 2 0 5 B ? @> 3 @ 0<<: 0,

> B:; N G 0 N I 0 A O C D- R O M 8 ?> 4:; N G 0 5 B, A> 1 A B 2 5 ==> <> 4 5<- H U A W E I

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(("usb_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));
+       usb_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_QUALCOMMINC, USB_PRODUCT_QUALCOMMINC_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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