

Occasionally we are asked to supply a driver where the identity of the touch screen is unknown. This document suggests ways of identifying an unknown controller in use.

Most touch screens that we deal with are connected to monitors. However, it is unlikely the monitor manufacturer is also the manufacturer of the touch screen. This will almost certainly have been supplied from a third party touch screen manufacturer.

It is possible that we don't support a given touch screen and we can add support if we are supplied relevant technical information as described in our [Controller Support document](#).

Here are the various ways you might be able to identify the touch screen in use:

- Sometimes the monitor/PC make will identify the touch screen in use, for example;

(Hyperlinks to product guides correct at time of adding entry).

<b>Manufacturer</b>	<b>Model</b>	<b>UPDD touch controller definition</b>
<b>All-in-one computers</b>		
Acer	1820PT/PTZ 1825PTZ 1420P Z5610	Red = unsupported in UPDD and shown for advice only EETI/eGalax MT ? / MosArt ? Cando MT MosArt Quanta Computer, USB (USB Pid = 3000)
Asus / Eee	PC T101MT T91MT	EETI/eGalax MT MosArt
Dell	<a href="#">Latitude XT</a> Studio One 19 Studio 17 X2T	N-Trig Next Window N-Trig N-Trig
Fujitsu	Lifebook <a href="#">T4410</a> / <a href="#">T4310</a>	Wacom
Gateway	<a href="#">ZX 4800-2</a>	Quanta Computer, USB (USB Pid = 3000)
HP	<a href="#">TouchSmart</a> <a href="#">TouchSmart tm2</a> <a href="#">TouchSmart tx2</a>	NextWindow, MT1950, USB Wacom N-Trig DuoSense
Lenovo	S10-3t	Cando MT
Packard Bell	<a href="#">Butterfly Touch</a>	MosArt
Sony	Vaio VPC L12ME1	Next Window
<b>All-in-one computers</b>		
Asus	ET20xxT	IDEACO IDC 6681 (14/12 – unsupported as yet)
Medion	Akoya P4010	eTurboTouch, 22b8, USB
<b>Touch Monitors</b>		
3M	M2256PW	PCT Multi-touch Projected Capacitive
Acer	T230H (Dual Touch)	Quanta Computer, USB (USB Pid = 3000)
Dell	<a href="#">SX2210T</a> (Multi-touch)	NextWindow, MT1950, USB
Hewlett Packard	<a href="#">L2105TM</a> (Dual Touch) <a href="#">4200tm</a> (Dual Touch)	Quanta Computer, USB (USB Pid = 3000) ? (possibly same as above)
Iiyama	<a href="#">T2250MTS</a> (Dual Touch)	Quanta Computer, USB (USB Pid = 3000)
Packard Bell	<a href="#">Viseo 200 Touch Edition</a>	Quanta Computer, USB (USB Pid = 3000)
Medion	X54000 (MD 20165)	Quanta Computer, USB (USB Pid = 3001)
<b>Touch Monitors</b>		
3M	<a href="#">M150</a> , <a href="#">ChassisTouch</a>	3M, EXII, USB/Serial
	<a href="#">CT150</a> , <a href="#">M150HB</a> <a href="#">M170</a> M1500SS	3M, EXII, USB 3M, EXII, USB/Serial or 3M, SC500, USB/Serial 3M, EXII, USB
Allen-Bradley	VersaView 1750M	Panjit, TouchSet (PnP), Serial
Asus	<a href="#">Eee Top</a> T91MT	Asus, Eee Top, USB IDEACO IDC 6680 (14/12 – unsupported as yet)
Bcom	CivilNote Mini-notebook	Gunze, USB or Gunze, AHL, Serial
Cartft.com	<a href="#">CTF845-5</a>	HIDTouch, USB – (Vid = 1ddb, Pid = 1)
Chilin	<a href="#">ST-HB series</a>	Chi Lin, ST-TM series, USB (Resistive)
Clevo	TN120	TouchPack, Resistive, USB
Comtec	151A with touch	Dynapro SC4 Serial
CTX	PV500BT	Panjit, TouchSet, Serial
Davi	<a href="#">DAVI-nn10A/G</a>	3M SC4 Serial (and USB?)
Data View Co.	<a href="#">DAVI-1330b</a>	Web links imply there may be other touch options, e.g.ELO
Dell	E153FPT E157FPT	3M Microtouch USB ELO, SmartSet USB and Serial
Dynamix	Resistive touch screens	eGalax USB
Earth		DMC Fit 10 serial and USB 3M Capacitive
Elo	3000 Series Entuitive	EloTouch, Accutouch 3000, USB

	1725L Accutouch USB	
Eizo	1749 <a href="#">L362</a>	EloTouch, 2700 Intellitouch USB and Serial
Gigabyte	<a href="#">M912</a>	3M Touchsystems, EXII, USB
GVision	P12DS series P15BX series L15AX series P17BH series P19BH series	Salt, Penmount 5100 Series (14e1/6000), USB Groovy Touch Groovy Touch USB and Serial 3M / ELO / Groovy Touch Serial 3M / ELO / HIGGSTEC USB and Serial 3M / ELO / HIGGSTEC USB and Serial
IBM	9497 T86A 6309 P76 9527 T32	3M/Microtouch, SMT3/EXII, USB 3M/Microtouch, SMT3/EXII, Serial 3M/Microtouch, SMT3/EXII, Serial
Intelliworxx	Texlon – VoiceTablet	Nissha, NIS/RC-872R, Bus – Use UPDD version 3.x.x only
Iiyama	INT3819TS	EloTouch, 23xx/25xx Intellitouch, Serial
LG Monitors	All recent models - Some later models LG L1510SF LG 1730SF	ITM Touch, USB (VID = 403) or Serial ITM Touch, LG, USB (VID = E316) or Serial ITM Touch, USB (VID = 403) ITM Touch, USB (VID = 403)
LG monitors with ITM touch screens ships with UPDD driver for Windows. Click <a href="#">here</a> for production software	ProLite B380C	3M/Microtouch, SMT3/EXII, Serial
Lilliput		EGalax, TP001 (PID1), USB
Mimo	740	e2i, USB (old name) and SJT, USB (new name)
The mimo ships with UPDD driver for Windows. Click <a href="#">here</a> for production software		
MiracleTouch	xxxxx-IU / IS  xxxxx-RU /RS xxxxx-EU	Many different names referring to the same touch controller. IRTouch, USB (IU) or Serial (IS) should work. eGalax. USB (RU) or Serial (SU) EloTouch, USB
MITAC	QMP-150/T 15RX-TA	Quick, Resistive Rev 1.2, Serial
Neovo	TS-15S	EloTouch Serial
NEC	MultiSync LCD 1850E MultiSync LCD175VXM+ Accusync <a href="#">Accusync LCDn2Vx-TC</a> Example - ASLCD72VX-BK-TC <a href="#">Accusync LCDn2Vx-TR</a>  <a href="#">Accusync LCD73VX-BK</a> LCD4000  LCD1560nx	EloTouch Serial eGalax USB  EloTouch Serial and USB 3M Touchsystems, EXII, USB (C = Capacitive)  3M Touchsystems, SC500, USB (R = Resistive)  3M Touchsystems, EXII, USB (C = Capacitive) ELO Smartset USB
	LCD5220 VSU V2 CF-VDL02BM	Zytronic, x-y, USB (there may be others fitted to this device) Matsushita-2 (really a Gunze, AHL, Serial device)
Panasonic	<a href="#">Planar Drivers page</a> and <a href="#">Planar Monitor Archive</a>	
Planar	PT120 PT150MU PT150M PT170MU PT170M LA1500RTR LA1500RTC LA1710RTR  LA1710RTC LA1910RTC <a href="#">LXnn01PTI</a> PT1503NT PT191MU PT1500M PT1500MU PT1500MX PT1501M PT1501MU PT1510MX PT1510MTX PT1700M PT1700MU PT1701M PT1701MU PT1710MX PT1915MU	Gunze, AHL, Serial Fujitsu, 055x series (pid511), USB Fujitsu, Serial Fujitsu, 055x series (pid511), USB Fujitsu, Serial 3M Touchsystems, SC500, USB 3M, EXII, USB Fujitsu, 055x series (pid511), USB ???  Or 3M Touchsystems, SC500, USB 3M, EXII, USB 3M, EXII, USB IRTouch, USB EloTouch, 23xx/25xx Intellitouch, Serial 3M, EXII, USB 3M Touchsystems, SC500, Serial 3M Touchsystems, SC500, USB eGalax, USB 3M, EXII, Serial 3M, EXII, USB Gunze, AHL, Serial / USB eGalax, USB 3M Touchsystems, SC500, Serial 3M Touchsystems, SC500, USB 3M, EXII, Serial 3M, EXII, USB Gunze, AHL, Serial / USB General Touch, USB
Rockwell	<a href="#">1550M</a> , <a href="#">1750M</a> , <a href="#">1950M</a>	Panjit, Serial
Samsung	<a href="#">173VT</a>	3M/Microtouch, SMT3/EXII, Serial

Slimage	400A	EloTouch, Accutouch, Serial
Sanyo	<a href="#">TK15A4T</a>	3M/Microtouch, SMT3/EXII, Serial
	<a href="#">TK15A4TC</a>	3M/Microtouch, SMT3/EXII, Serial
	<a href="#">TK15A4TS</a>	EloTouch, 23xx/25xx Intellitouch, Serial
Shuttle	<a href="#">X50</a>	Egalax, USB
SilverStone	<a href="#">CW03-MT</a>	TouchPack, Resistive, USB
Sony	<a href="#">Vaio UX series</a>	Gunze, New, USB
Tidal Power	<a href="#">Palmax PD-1nnn</a>	Palmax, Serial (uses a Tritech TR88L803 ADC)
Technologies Inc		
TVS	LP-10F22	Fujitsu, PID508, USB
Xenarc	USB	EGalax, TP001 (PID1), USB
Zalman	<a href="#">HD160XT</a>	DigiTech, DTR-02U, USB

- Monitor product literature or specification may identify the manufacturer or give clues, such as 8 wire touch screen, of which there are only a few in production.
- Touch manufacturer's labels may be attached to the base or back of the monitor.
- Supplied drivers may identify the manufacturer or touch screen.
- Contacting the technical department of the monitor manufacturer for advice.

Depending on the port in use we may be able to identify the device from information gleaned from the system:

<b>PS/2</b>	If using a PS/2 port you will need to identify from the suggestions above.
<b>Serial</b>	If using a serial port the best option is to identify from the suggestions above. Failing that, there is a data scope program available from the <a href="#">Utilities page</a> of our web site, which can be used to identify the touch data packet seen at the serial port. We can sometimes identify the controller solely based on this data, which can be saved to a log and emailed to us.
<b>USB</b>	If using a USB controller, which by definition is a Plug and Play device, there are ways of identifying the controller from the PnP information passed from the device to the system. Given this information we can identify the touch controller in use from our database of touch controller settings. The required information is the Vendor id (VID), Product id (PID) and, if available, the manufacturer's id, which can be extracted as follows:

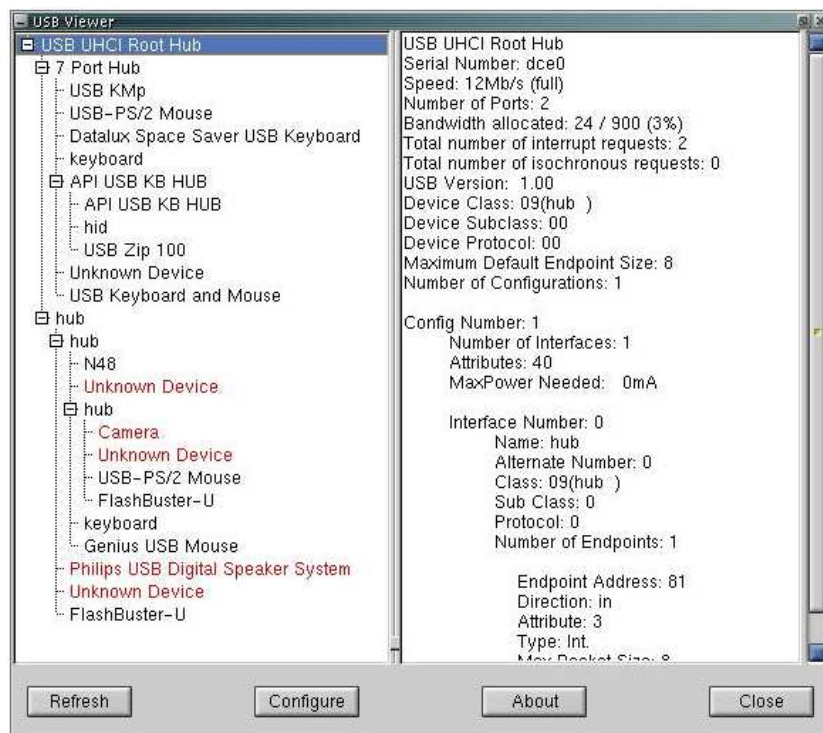
## Linux

To view the USB vendor and product ids in Linux you can use a graphical viewer or the CAT / LSUSB commands as described below. There may be other methods.

### Graphical viewer

Use a graphical USB Viewer available on the web (Google 'usb view download'), such as the one at <http://www.kroah.com/linux/usb/>

When run, this will show the USB devices, as shown in the following example:



### Cat Command

Open a terminal window and type `cat /proc/bus/usb/devices`. This is best performed with all other USB devices unplugged as sometimes it is unclear which device is which, especially if the description string has not been implemented in the device.

Typically, the output will be in the format shown below. For clarity, the USB touch screen is shown in bold, but does not appear highlighted in the actual output. The VID = 0AFA and the PID = 03E8. The manufacturer/controller id = TSC-10 DMC.

**T: Bus=01 Lev=01 Prnt=01 Port=00 Cnt=01 Dev#= 3 Spd=1.5 MxCh= 0**

```

D: Ver= 1.00 Cls=ff(vend.) Sub=00 Prot=ff MxPS= 8 #Cfgs= 1
P: Vendor=0afa ProdID=03e8 Rev= 1.10
S: Manufacturer=TSC-10 DMC
C:* #Ifs= 1 Cfg#= 1 Atr=a0 MxPwr=100mA
I: If#= 0 Alt= 0 #EPs= 1 Cls=ff(vend.) Sub=ff Prot=ff Driver=(none)
E: Ad=81(I) Atr=03(Int.) MxPS= 5 IvL= 10ms
T: Bus=01 Lev=01 Prnt=01 Port=01 Cnt=02 Dev#= 2 Spd=1.5 MxCh= 0
D: Ver= 1.10 Cls=00(>ifc ) Sub=00 Prot=00 MxPS= 8 #Cfgs= 1
P: Vendor=045e ProdID=0039 Rev= 3.00
S: Manufacturer=Microsoft
S: Product=Microsoft 5-Button Mouse with IntelliEye(TM)
C:* #Ifs= 1 Cfg#= 1 Atr=a0 MxPwr=100mA
I: If#= 0 Alt= 0 #EPs= 1 Cls=03(HID ) Sub=01 Prot=02 Driver=hid
E: Ad=81(I) Atr=03(Int.) MxPS= 4 IvL= 10ms

```

**Note:** On SuSE 10.1 systems (and possibly others) the USB file system isn't enabled by default. This should be enabled by editing the file "/etc/fstab" and change the line that says:

```

usbfs /proc/bus/usbfs noauto 00
to
usbfs /proc/bus/usbfs auto 00 and then reboot your system.

```

This is required to get the output of "cat /proc/bus/usb/devices"

### LSUSB command

If the optional USBUTILS package is installed on your system you can also obtain a list of USB devices using the LSUSB command.

The USB devices are listed in the following format:

```

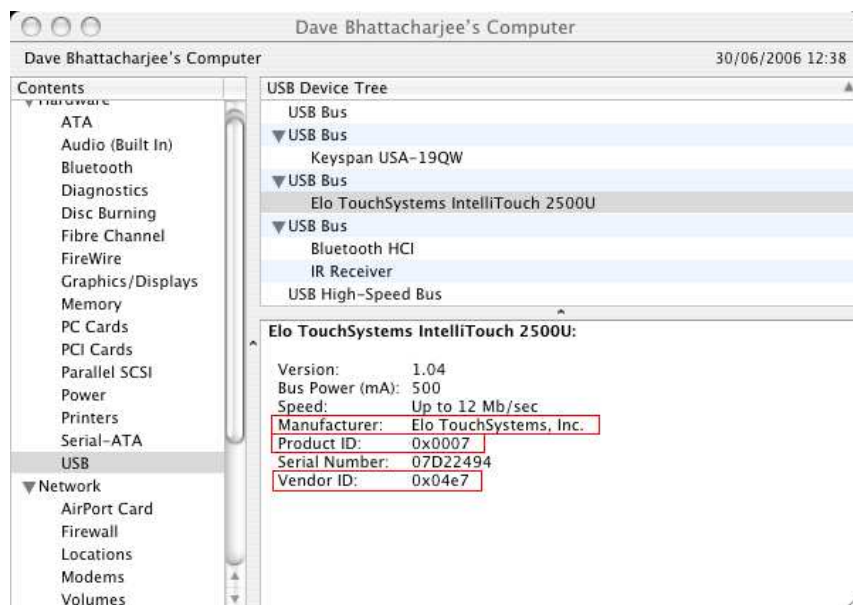
Bus 004 Device 001: ID 0000:0000
Bus 003 Device 001: ID 0000:0000
Bus 003 Device 002: ID 066b:2213 Linksys, Inc. WUSB12v1.1 802.11b Adapter
Bus 003 Device 003: ID 067b:2303 Prolific Technology, Inc. PL2303 Serial Port
Bus 002 Device 001: ID 0000:0000
Bus 002 Device 002: ID 0eef:0001 D-WAV Scientific Co., Ltd eGalax TouchScreen
Bus 001 Device 001: ID 0000:0000

```

In the above example, the highlighted entry is a USB touch screen controller.

### Mac OS X

To view the USB vendor and product ids in Mac OS X, run the System Profiler from the Utilities folder, expand the USB entry and locate the touch screen from the listed USB controllers, as shown:



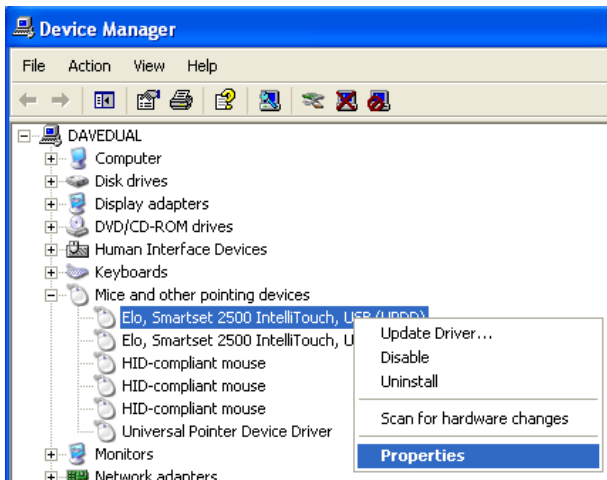
### Windows

There are many ways to identify USB devices plugged into a Windows USB compliant system (98,ME,2000,XP) and here are some of the methods we use to view the USB vendor and product ids:

#### Device Manager

Depending on the operating system in use the device's entry in the Device Manager may show the required information.

Start>Control panel>system>hardware>device manage>[section]>[device] right click on device entry, properties tab:



The following screen shots, taken on XP, show two devices with one being handled by UPDD (shown in the Mouse section) and the other HID (shown in the USB Human Interface Devices section):



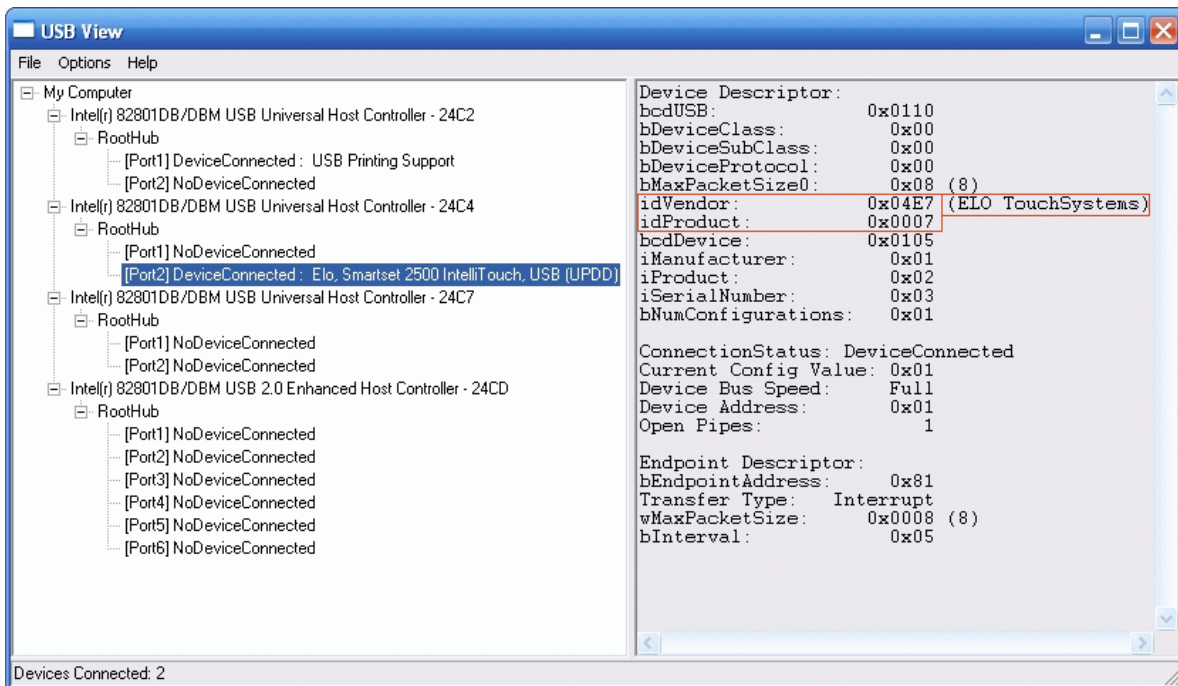
The touch controller entry also shows the serial number for the device (i.e. 07G57498)

**Graphical viewer**

Use a graphical USB Viewer. We have used two such viewers:

- 1) USB Deview from Nirsoft - [http://www.nirsoft.net/utills/usb\\_devices\\_view.html](http://www.nirsoft.net/utills/usb_devices_view.html)
- 2) USB View available on the web (Google 'usb view download'), such as the one at <http://www.microsoft.com/whdc/device/stream/vidcap/UVCView.msp> (this is the same as USB viewer)

When run, this will show the USB devices, as shown in the following example:



In this example UPDD is loaded and handling the device. If the USB HID driver is handling the device it will show

