

[http://solutions.3m.com/wps/portal/3M/en\\_US/TouchSystems/TouchScreen/Solutions/ProductCatalog/?PC](http://solutions.3m.com/wps/portal/3M/en_US/TouchSystems/TouchScreen/Solutions/ProductCatalog/?PC)

[http://solutions.3m.com/wps/portal/3M/en\\_US/Electronics\\_NA/Electronics/Tools\\_Support/Support/](http://solutions.3m.com/wps/portal/3M/en_US/Electronics_NA/Electronics/Tools_Support/Support/)

```
dpavlin@t42:~$ lsusb -d 0596:0001 -v
```

Bus 003 Device 002: ID 0596:0001 MicroTouch Systems, Inc. Touchscreen

Device Descriptor:

```
bLength          18
bDescriptorType   1
bcdUSB           1.10
bDeviceClass      0 (Defined at Interface level)
bDeviceSubClass   0
bDeviceProtocol   0
bMaxPacketSize0   64
idVendor          0x0596 MicroTouch Systems, Inc.
idProduct         0x0001 Touchscreen
bcdDevice         4.10
iManufacturer     1 3M
iProduct          2 3M USB Touchscreen - EX II
iSerial           0
bNumConfigurations 1
```

Configuration Descriptor:

```
bLength          9
bDescriptorType   2
wTotalLength      25
bNumInterfaces    1
bConfigurationValue 1
iConfiguration    0
bmAttributes      0xe0
  Self Powered
  Remote Wakeup
MaxPower          100mA
```

Interface Descriptor:

```
bLength          9
bDescriptorType   4
bInterfaceNumber  0
bAlternateSetting 0
bNumEndpoints     1
bInterfaceClass   255 Vendor Specific Class
bInterfaceSubClass 0
bInterfaceProtocol 0
iInterface        0
```

Endpoint Descriptor:

```
bLength          7
bDescriptorType   5
bEndpointAddress  0x81 EP 1 IN
bmAttributes      3
  Transfer Type    Interrupt
  Synch Type       None
  Usage Type       Data
wMaxPacketSize    0x0020 1x 32 bytes
bInterval         2
```

Device Status: 0x0000  
(Bus Powered)

<http://www.linuxquestions.org/questions/linux-hardware-18/success-3m-microtouch-touchscreen-in-ubuntu-5>

<http://ubuntuforums.org/showthread.php?t=158666>

```
dpavlin@t42:~$ sudo apt-get install xserver-xorg-input-mutouch
```

```

dpavlin@t42:~$ xinput list
â ; Virtual core pointer                id=2      [master pointer  (3)]
â   â ³ Virtual core XTEST pointer      id=4      [slave  pointer  (2)]
â   â ³ 3M 3M USB Touchscreen - EX II   id=9      [slave  pointer  (2)]
â   â ³ SynPS/2 Synaptics TouchPad      id=11     [slave  pointer  (2)]
â   â ³ TPPS/2 IBM TrackPoint           id=12     [slave  pointer  (2)]
â £ Virtual core keyboard              id=3      [master keyboard (2)]
â   â ³ Virtual core XTEST keyboard      id=5      [slave  keyboard (3)]
â   â ³ Power Button                    id=6      [slave  keyboard (3)]
â   â ³ Video Bus                      id=7      [slave  keyboard (3)]
â   â ³ Sleep Button                   id=8      [slave  keyboard (3)]
â   â ³ AT Translated Set 2 keyboard     id=10     [slave  keyboard (3)]
â   â ³ ThinkPad Extra Buttons          id=13     [slave  keyboard (3)]

```

```

dpavlin@t42:~$ xinput list-props 9

```

```

Device '3M 3M USB Touchscreen - EX II':
    Device Enabled (139):      1
    Coordinate Transformation Matrix (141): 1.000000, 0.000000, 0.000000, 0.000000, 1.000000,
    Device Accel Profile (263):      0
    Device Accel Constant Deceleration (264):      1.000000
    Device Accel Adaptive Deceleration (265):      1.000000
    Device Accel Velocity Scaling (266):      10.000000
    Device Product ID (257):      1430, 1
    Device Node (258):      "/dev/input/event7"
    Evdev Axis Inversion (267):      1, 0
    Evdev Axis Calibration (268):      <no items>
    Evdev Axes Swap (269):      0
    Axis Labels (270):      "Abs X" (261), "Abs Y" (262)
    Button Labels (271):      "Button Unknown" (260), "Button Unknown" (260), "Button Unknown"
    Evdev Middle Button Emulation (272):      0
    Evdev Middle Button Timeout (273):      50
    Evdev Third Button Emulation (274):      0
    Evdev Third Button Emulation Timeout (275):      1000
    Evdev Third Button Emulation Button (276):      3
    Evdev Third Button Emulation Threshold (277):      20
    Evdev Wheel Emulation (278):      0
    Evdev Wheel Emulation Axes (279):      0, 0, 4, 5
    Evdev Wheel Emulation Inertia (280):      10
    Evdev Wheel Emulation Timeout (281):      200
    Evdev Wheel Emulation Button (282):      4
    Evdev Drag Lock Buttons (283):      0

```

```

# flip y axis

```

```

dpavlin@t42:~$ xinput set-prop 9 267 1 0

```

```

# calibrate screen

```

```

xinput set-prop 9 268 2380 14000 2800 13500

```