

Logitech wireless mouse/trackball

To handle old (not Unifying Receiver) Logitech product:

```
sudo apt-get install lomoco
```

```
sudo lomoco -i
```

```
003.005: 046d:c508 Receiver for Cordless Optical TrackMan (C-BA4-MSE) Caps:
CSR SMS
```

```
Receiver type: C508
Mouse type: Cordless Optical TrackMan
Connect button on mouse pressed: no
Active RF Channel: 1
Battery status: 7 (full)
Cordless security ID: 0x8e16
Receiver talking: yes
Lock Request (CONNECT button pressed): no
Mouse Powerup (First time out of the box auto-locking): no
Receiver Unlocked (Mouse disconnected): no
Wait Lock (Searching for mouse): no
Device physical shape type: 0
SmartScroll (SMS): reporting not supported
USB Mouse Polling Interval: 10ms
```

```
sudo lomoco --pid=C508 -i | grep -w "Battery status:"
```

For logitech devices there are additional packets:

https://wiki.archlinux.org/index.php/Logitech_Marble_Mouse

Change trackball pointer speed

Using CTM:

[/root/sc/logitech-set-sens.sh](#)

```
#!/bin/bash
xinput set-prop "Logitech USB Receiver" "libinput Accel Speed" 1
xinput set-prop "Logitech USB Receiver" "Coordinate Transformation
Matrix" \
2.000000, 0.000000, 0.000000, \
0.000000, 2.000000, 0.000000, \
0.000000, 0.000000, 1.000000
```

Automatic speed change when device connected

dmesg

```
164704.769399] usb 1-6: new low-speed USB device number 11 using xhci_hcd
[164704.931613] usb 1-6: New USB device found, idVendor=046d,
idProduct=c508, bcdDevice=15.00
[164704.931621] usb 1-6: New USB device strings: Mfr=1, Product=2,
SerialNumber=0
[164704.931623] usb 1-6: Product: USB Receiver
[164704.931625] usb 1-6: Manufacturer: Logitech
[164704.937746] input: Logitech USB Receiver as
/devices/pci0000:00/0000:00:14.0/usb1/1-6/1-6:1.0/0003:046D:C508.0008/input/
input21
[164704.997603] hid-generic 0003:046D:C508.0008: input,hidraw3: USB HID
v1.10 Mouse [Logitech USB Receiver] on usb-0000:00:14.0-6/input0
```

```
udevadm info --attribute-walk --path
/sys/devices/pci0000\:00/0000\:00\:14.0/usb1/1-6/1-6\:1.0/0003\:046D\:C508.0
008/input/input21
```

or simply

```
udevadm info --attribute-walk --path /dev/input/mouse0
```

```
looking at parent device '//devices/pci0000:00/0000:00:14.0/usb1/1-6':
ATTRS{idProduct}=="c508"
ATTRS{idVendor}=="046d"
```

```
ATTRS{idVendor}=="046d", ATTRS{idProduct}=="c508", SYMLINK+="trackman"
ACTION=="add|change", \
    SUBSYSTEM=="usb", ATTRS{idVendor}=="046d", ATTRS{idProduct}=="c508", \
    ENV{DISPLAY}=":0", \
    ENV{XAUTHORITY}="/home/localuser/.Xauthority", \
    RUN+="/root/sc/logitech-set-sens.sh"
```

```
udevadm control --reload-rules && udevadm trigger -s usb -a idProduct="c508"
```

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