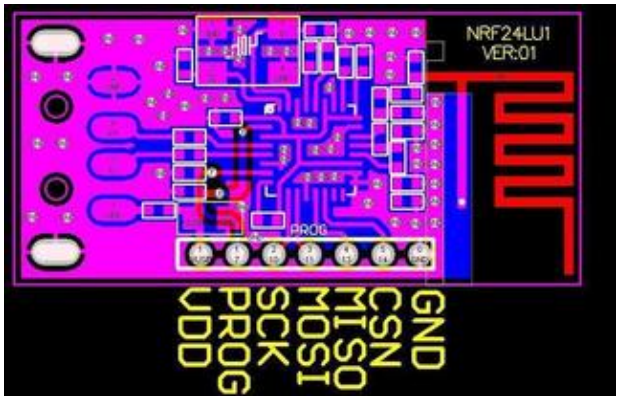
t=0xa0bebb0 [0,0]

Contents: [Dobrica PavlinuÅ¡iÄ 's random unstructured stuff]

pinout



It seems that v2.0 devies are 32k while Internet wants us to beleve that they are 16k (v1.0 maybe?)

original firmware output

```
[11985.181504] usb 2-2.1: new full-speed USB device number 7 using xhci_hcd
[11985.285687] usb 2-2.1: New USB device found, idVendor=1915, idProduct=002b
[11985.285690] usb 2-2.1: New USB device strings: Mfr=1, Product=2, SerialNumber=3
[11985.285692] usb 2-2.1: Product: Nordic Semiconductor nRFready Basic Remote Dongle
[11985.285694] usb 2-2.1: Manufacturer: Nordic Semiconductor
[11985.285695] usb 2-2.1: SerialNumber: \xfffffffef\xffffffbf\xffffffbf\xfffffffef\xffffffbf\xfffff
[11985.301719] input: Nordic Semiconductor Nordic Semiconductor nRFready Basic Remote Dongle as /
[11985.361937] hid-generic 0003:1915:002B.0005: input,hiddev0,hidraw2: USB HID v1.11 Keyboard [No
```

mouse jack tools

https://github.com/BastilleResearch/mousejack

find device address

```
dpavlin@nuc:/nuc/nRF24L01/mousejack/nrf-research-firmware/tools$ ./nrf24-scanner.py
[2017-01-07 13:50:59.174]  12   0  65:6F:91:A9:07
[2017-01-07 13:51:07.012]   8  10  65:6F:91:A9:07  00:C2:00:00:F8:FF:FE:00:00:49
[2017-01-07 13:51:15.216]   8  10  65:6F:91:A9:07  00:C2:00:00:17:D0:FF:00:00:58
[2017-01-07 13:51:15.231]   8   0  65:6F:91:A9:07
[2017-01-07 13:51:15.698]  12   0  65:6F:91:A9:07
[2017-01-07 13:51:23.456]   8  10  65:6F:91:A9:07  00:C2:00:00:EB:BF:FF:00:00:95
[2017-01-07 13:51:23.503]   8  10  65:6F:91:A9:07  00:C2:00:00:FF:0F:FF:00:00:31
[2017-01-07 13:51:23.509]   8   0  65:6F:91:A9:07
[2017-01-07 13:51:23.840]  12   0  65:6F:91:A9:07
```

sniff

```
dpavlin@nuc:/nuc/nRF24L01/mousejack/nrf-research-firmware/tools$ ./nrf24-sniffer.py -c 8 12 -a 65
[2017-01-07 13:53:34.922]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.930]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.938]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.946]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.962]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.970]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.979]   8  22  65:6F:91:A9:07  00:D3:44:0F:5C:E6:CD:54:B5:71:8C:F9:99:33:00:0
[2017-01-07 13:53:34.986]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:34.994]   8  10  65:6F:91:A9:07  00:4F:00:01:18:00:00:00:00:98
[2017-01-07 13:53:35.125]   8   5  65:6F:91:A9:07  00:40:01:18:A7
[2017-01-07 13:53:35.278]   8  22  65:6F:91:A9:07  00:D3:B0:F4:B3:27:E3:BE:34:72:8C:F9:99:34:00:0
[2017-01-07 13:53:35.285]   8   5  65:6F:91:A9:07  00:40:00:08:B8
[2017-01-07 13:53:35.301]   8   5  65:6F:91:A9:07  00:40:00:08:B8
```

flashing

https://github.com/BastilleResearch/mousejack/issues/6
https://wiki.bitcraze.io/projects:crazyradio:spi_programming

bus pirate

https://github.com/koolatron/buspirate_nrf24lu1p

t=0xa0c58c8

Bus Pirate		nRF24LU1+
3V3	->	VDD
AUX	->	PROG
SCK	->	SCK
MOSI	->	MOSI
MISO	->	MISO

cell=0xa0c6[illegible]

CS	->	CSN
GND	->	GND

```
dpavlin@nuc:/nuc/nRF24L01/buspirate_nrf24lu1p$ ./flasher.pl -device /dev/ttyUSB0 -input ../mousej
```

bootloader

512 byte replacement

https://github.com/ahtn/nrf24lu1p-512-bootloader

original bootloader

https://github.com/al177/buspirate_nrf24lu1p

Logitech C-U0007

Version with fixed ctrl+c exit bug: https://github.com/cl0udz/mousejack

```
dpavlin@x230:/x230/mousejack$ git remote -v
cl0udz  https://github.com/cl0udz/mousejack (fetch)
cl0udz  https://github.com/cl0udz/mousejack (push)

dpavlin@x230:/x230/mousejack/nrf-research-firmware$ make logitech_install

[Fri Apr 27 22:10:16 2018] usb 1-1.2: new full-speed USB device number 23 using ehci-pci
[Fri Apr 27 22:10:16 2018] usb 1-1.2: New USB device found, idVendor=1915, idProduct=0102
[Fri Apr 27 22:10:16 2018] usb 1-1.2: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[Fri Apr 27 22:10:16 2018] usb 1-1.2: Product: Research Firmware
[Fri Apr 27 22:10:16 2018] usb 1-1.2: Manufacturer: RFStorm

dpavlin@x230:/x230/mousejack/nrf-research-firmware$ ./tools/nrf24-scanner.py
[2018-04-29 14:23:51.370]   5  22  65:6F:91:A9:07  00:D3:D5:D7:4F:76:ED:63:55:70:EC:77:61:0F:00:0
[2018-04-29 14:23:51.786]   9   5  65:6F:91:A9:07  00:40:00:08:B8
```