

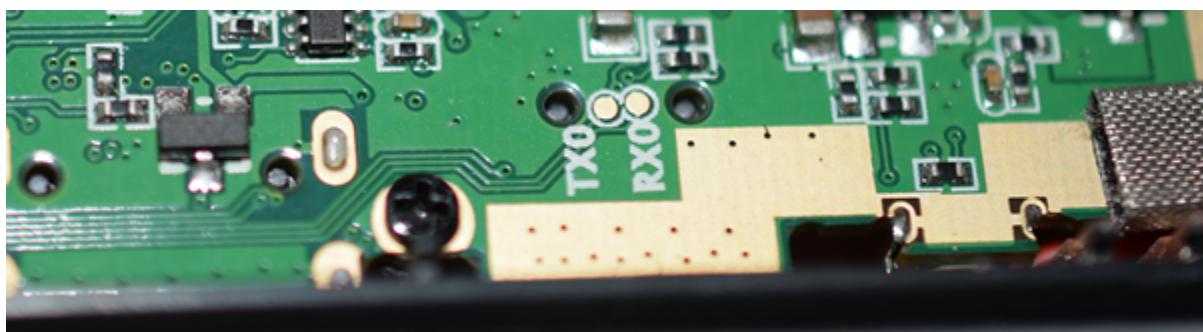
# UART Connector in miniUSB 10 pin

mini USB B 10 pin connector

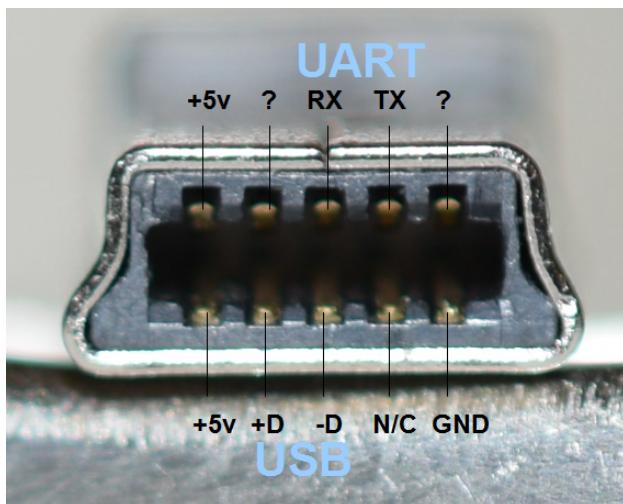


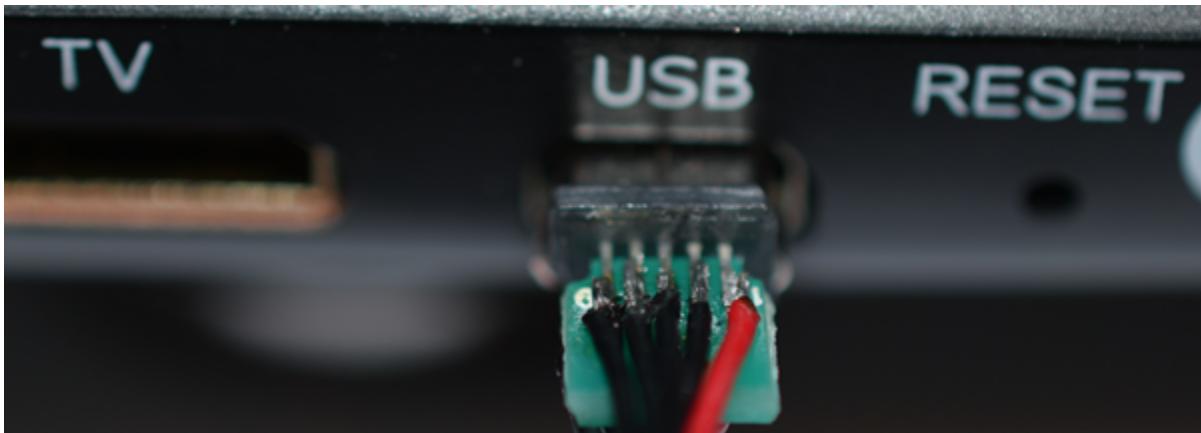
used in dashcams for differen purposes like GPS connect, detect car power and start recording (and not start recording when charge at home).

UART 3.3v (TX0 RX0) in SAMOON B03F (NOUS NF9) baseboard are both available at surface



and could be accessed without device dissasemble using 10pin USB.

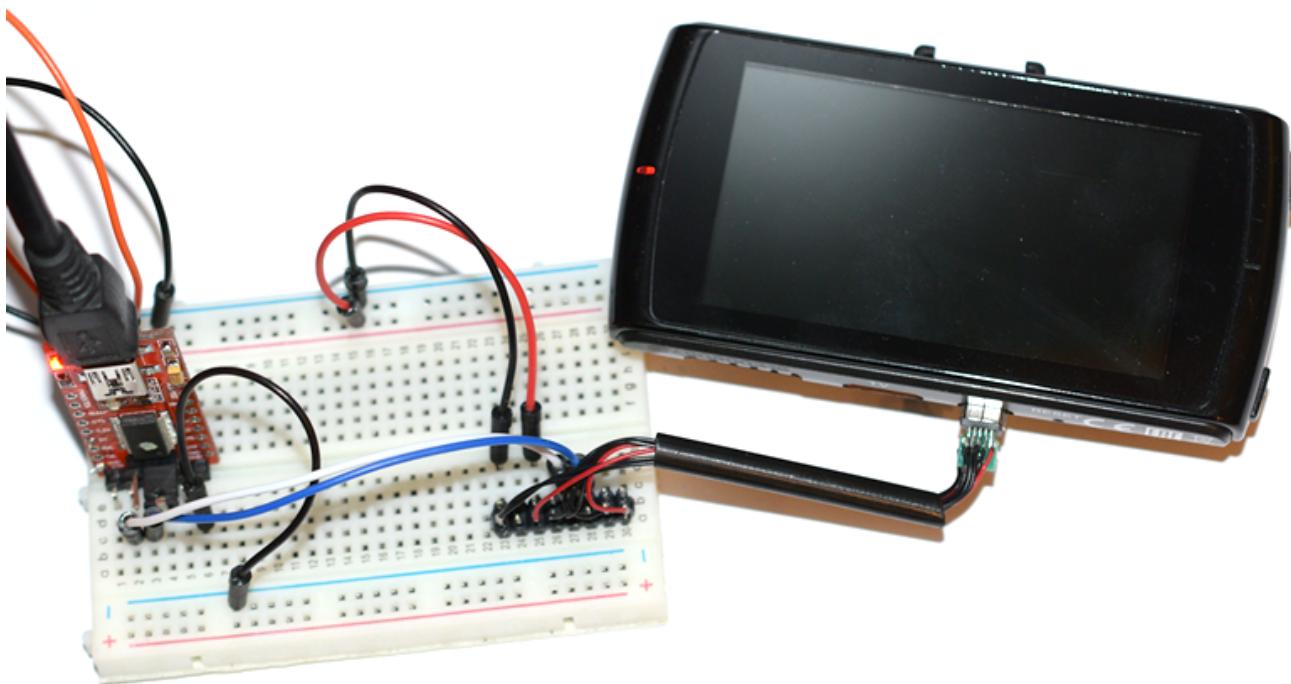




## USB to 3.3v UART convertors

CH340 or FTDI232RL.

Both work at Windows 10 and support 3.3v

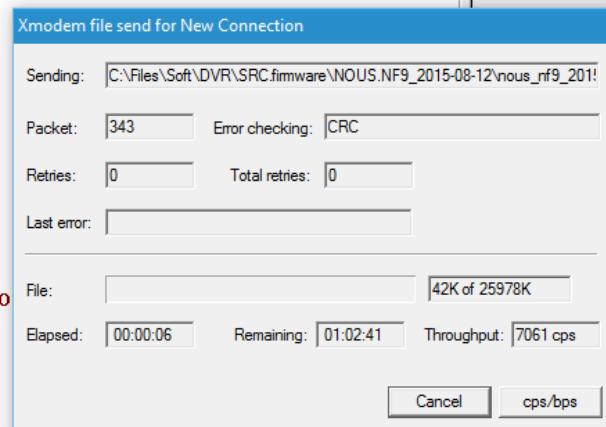


## Firmware upload with UART using XMODEM

26 MB firmware will upload in 75 minutes on 115200 baud

```
amboot> show ptb
bst: 0xd4708565 1.3      (2014/9/4)      0x00000000 0x00000001 (2048)
bld: 0x75cee77e 1.3      (2014/9/4)      0xc0000000 0x00000000 (133284)
hal: 0xaecab8f1 5.1      (2014/9/4)      0xc00a0000 0x00000000 (62556)
pri: 0x9547a369 0.1      (2014/9/4)      0xc0100000 0x00000000 (7024644)
rom: 0xfcfa6faf5 2.0      (2014/9/4)      0x00000000 0x00000001 (8828928)
dsp: 0x9db73a14 0.1      (2014/9/4)      0xc82fffb0 0x00000000 (4177920)
```

```
S/N:
usbd1_mode: 0
auto_boot: 1
cmdline: "osd=8bit record_fmt=mov_aac emergency_type=prec_non_overlapped"
amboot> help
The following commands are supported:
help bios boot diag
dump erase nand_erase exec
hal hotboot r8 r16
r32 reboot reset setenv
setmem show usbd1 w8
w16 w32 xmdl
Use 'help' to get help on a specific command
amboot> help xmdl
Help for 'xmdl':
Usage: xmdl [address] [exec]
xmdl firmware
Download binary image to target memory address 0
using the XMODEM protocol
amboot> xmdl firmware
download to 0xc0100000
start sending using the XMODEM protocol...
press ^X to quit
CCCCCCCCCC_
```



Connected 0:48:49 | Auto detect | 115200 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo

```

amboot> help
The following commands are supported:
help    bios    boot    diag
dump   erase   nand_erase      exec
hal    hotboot r8     r16
r32    reboot   reset   setenv
setmem show    usbdl   w8
w16    w32     xmldl
Use 'help' to get help on a specific command

amboot> help show
Help for 'show':
Usage:
show logo      - boot loader logo
show flash     - flash info and allocation scheme
show ptb       - flash partition table
show meta      - flash meta table
show bb        - show NAND bad blocks
show wifi      - show wifi infomations
show usb_eth   - show usb ethernet infomations
show netboot   - netboot parameters
show prog_log  - show the last firmware upgrade log
Display various system properties

amboot> show bb
----- Initial bad blocks -----
216      300      357      375      966
1762     1788     1925
Total bad blocks: 8
amboot> show ptb
bst: 0xd4708565 1.3      (2014/9/4)      0x00000000 0x00000001 (2048)
bld: 0x75cee77e 1.3      (2014/9/4)      0xc0000000 0x00000000 (133284)
hal: 0xaecab8f1 5.1      (2014/9/4)      0xc0a0000 0x00000000 (62556)
pri: 0x9547a369 0.1      (2014/9/4)      0xc010000 0x00000000 (7024644)
rom: 0xfca6faf5 2.0      (2014/9/4)      0x00000000 0x00000001 (8828928)
dsp: 0x9db73a14 0.1      (2014/9/4)      0xc82ffffb0 0x00000000 (4177920)
S/N:
usbdl_mode: 0
auto_boot: 1
cmdline: "osd=8bit record_fmt=mov_aac emergency_type=prec_non_overlapped"

amboot> help xmldl
Help for 'xmldl':
Usage: xmldl [address] [exec]
xmldl firmware
Download binary image to target memory address over UART
using the XMODEM protocol

amboot> xmldl firmware
download to 0xc0100000
start sending using the XMODEM protocol...
press ^X to quit

```