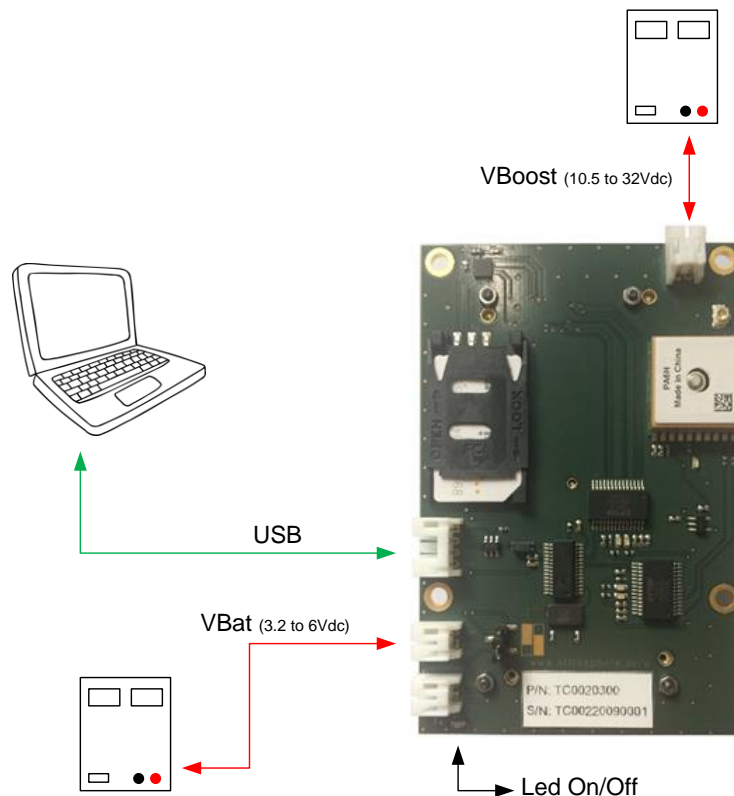


Quick Start Guide TC002 Board

Prerequisite :

- Sim card inserted and activated
- Modem Iridium plugged on the board
- Jumper in position 1-2, Trxon is linked to VBAT
- Linux installed on your laptop
- Minicom installed on your laptop
- Iridium Antenna connected and positioned in a clear place to improve the signal
- GPS antenna connected and positioned in a clear place to improve the reception

TC002 setup and configuration :



Once the board is powered, the led lights up.

⚠ Damage may be caused if TRX_ON is high and VBAT is not supplied

On your laptop, enter the following command : ***dmesg | grep tty***

```
root@TE00916050002:/home/planet# dmesg | grep tty
[ 0.000000] console [tty0] enabled
[ 27.135045] usb 2-1.1: FTDI USB Serial Device converter now attached to ttyUSB0
[ 27.135351] usb 2-1.2: FTDI USB Serial Device converter now attached to ttyUSB1
```

ttyUSB0 => Modem Iridium

- Minicom configuration : **minicom -s iridium**

```

+-----+
| A - Serial Device       : /dev/ttyUSB0 |
| B - Lockfile Location  : /var/lock    |
| C - Callin Program     :              |
| D - Callout Program    :              |
| E - Bps/Par/Bits       : 115200 8N1  |
| F - Hardware Flow Control : Yes       |
| G - Software Flow Control : No        |
+-----+
| Change which setting? █ |
+-----+
| Screen and keyboard    |
| Save setup as Iridium |
| Save setup as..       |
| Exit                   |
| Exit from Minicom     |
+-----+
    
```

- Exit

```

Welcome to minicom 2.7

OPTIONS: I18n
Compiled on Nov 15 2018, 20:18:47.
Port /dev/ttyUSB0, 11:38:17

Press CTRL-A Z for help on special keys

at
OK
at+cpin?
+CPIN:SIM PIN2

OK
at+csq
+CSQ:5

OK
atdt0088160000
CONNECT 115200

OK
ath0
OK
█
    
```

AT+CPIN? : SIM status and presence
 AT+CSQ : Check signal quality
 ATDT**** : Make a call

ttyUSB1 => GPS Receiver

- Minicom configuration : **minicom -s gps**

```

+-----+
| A - Serial Device       : /dev/ttyUSB1 |
| B - Lockfile Location  : /var/lock    |
| C - Callin Program     :              |
| D - Callout Program    :              |
| E - Bps/Par/Bits       : 9600 8N1    |
| F - Hardware Flow Control : No        |
| G - Software Flow Control : No        |
+-----+
| Change which setting? █ |
+-----+
| Screen and keyboard    |
| Save setup as gps     |
| Save setup as..       |
| Exit                   |
| Exit from Minicom     |
+-----+
    
```

- Exit

```

Welcome to minicom 2.7

OPTIONS: I18n
Compiled on Nov 15 2018, 20:18:47.
Port /dev/ttyUSB1, 11:36:32

Press CTRL-A Z for help on special keys

$GPGGA,093924.298,,,,,0,0,,M,M,,*4E
$GPGSA,A,1,,,,,,,,,,,,,*1E
$GPRMC,093924.298,V,,,,,0.00,0.00,161020,,N*4F
$GPVTG,0.00,T,M,0.00,N,0.00,K,N*32
$GPGGA,093925.098,,,,,0,0,,M,M,,*4D
$GPGSA,A,1,,,,,,,,,,,,,*1E
$GPRMC,093925.098,V,,,,,0.00,0.00,161020,,N*4C
$GPVTG,0.00,T,M,0.00,N,0.00,K,N*32
$GPGGA,093926.098,,,,,0,0,,M,M,,*4E
$GPGSA,A,1,,,,,,,,,,,,,*1E
$GPGSV,1,1,02,21,,14,28,,18*7E
$GPRMC,093926.098,V,,,,,0.00,0.00,161020,,N*4F
$GPVTG,0.00,T,M,0.00,N,0.00,K,N*32
$GPGGA,093927.098,,,,,0,0,,M,M,,*4F
$GPGSA,A,1,,,,,,,,,,,,,*1E
$GPRMC,093927.098,V,,,,,0.00,0.00,161020,,N*4E
$GPVTG,0.00,T,M,0.00,N,0.00,K,N*32
$GPGGA,093928.098,,,,,0,0,,M,M,,*40
$GPGSA,A,1,,,,,,,,,,,,,*1E
$GPRMC,093928.098,V,,,,,0.00,0.00,161020,,N*41
$GPVTG,0.00,T,M,0.00,N,0.00,K,N*32
█
    
```