X1C5 Plus portable APRS tracker Manual

X1C5 Plus is a handheld Automatic Position Reporting System using built-in GPS via Radio link/WiFi/Bluetooth to report position over internet or to APRS devices.

Features:

1.8-inch color LCD

Support fixed station FIXED, sports SPORT, 2 site modes
Support complete TRACK tracker, support intelligent, timing, PTT linkage, queue beacon
Support beacon additional information, mileage, satellite number, voltage, temperature, air pressure, etc.
Support mileage calculation, support accumulated mileage or automatically clearance
Support for automatic icons (TRACK smart mode)
Support GPS power saving mode (TRACK PTT linkage mode, TRACK timing mode)

Integrated 2.0+4.0 dual mode Bluetooth,

Support Bluetooth output KISS hex, UI, GPWPL, KISS ASC, GS232B and other protocols

Support Bluetooth output GPS data (GPRMC+GPGGA), support mixed output

Support Bluetooth KISS data bidirectional transparent transmission

Support full DIGI relay function, support custom relay name, support relay remote turn-off function

Support remote control peripheral sensor input and relay output module

Built-in advanced CMX programming algorithm

Built-in transmit level, receive level adjuster (-10.5dB -0dB)

Built-in high performance GPS\Beidou\GLONASS multimode hybrid positioning module

Built-in advanced algorithm to support rich data analysis

Support heading, north position, relative motion position calculation

Support APRS distance, elevation target calculation, support G5500 aircraft, vessel and other tracking control

Companion PC setup software (Chinese, English) (requires .NET 4.0)

UHF or VHF options, 1W RF output

Support battery USB direct charging

Support comprehensive GPS interface, beacon list interface, real-time beacon interface, beacon record analysis interface

Built-in temperature\pressure auxiliary sensor (temperature & air pressure values for reference only)

Support off-network use, no network, direct mutual positioning

Support liuyun, APRSdroid, LOCUS, Ovi and other APP

Support user independent firmware upgrade

Various information can be displayed on the colorful screen.

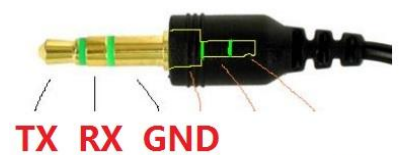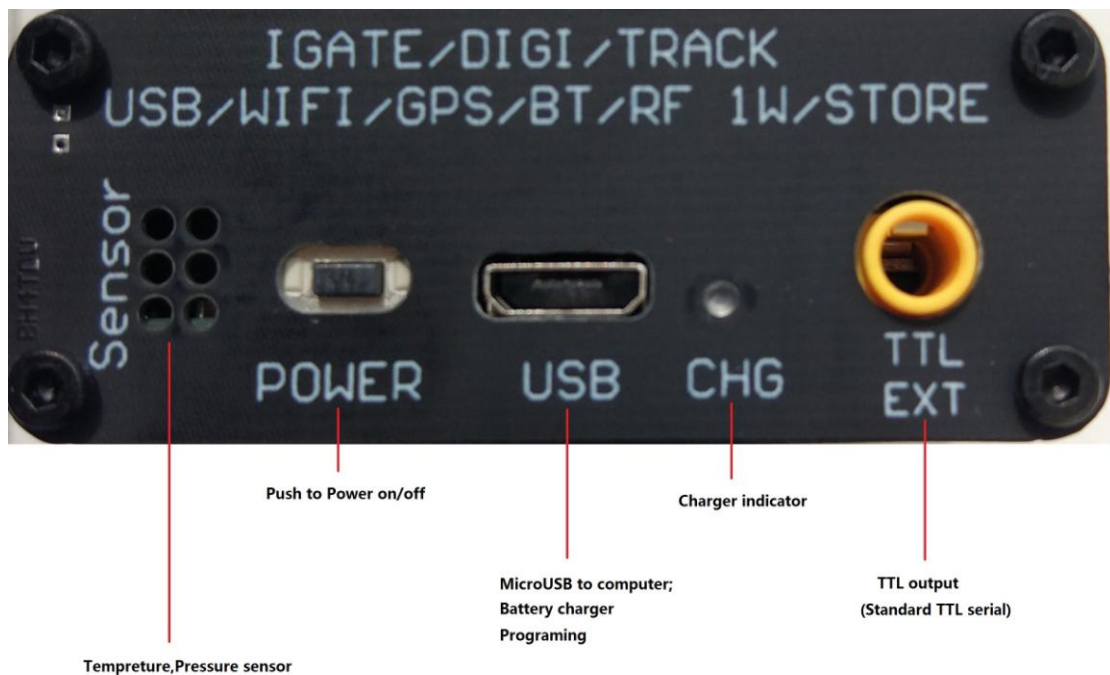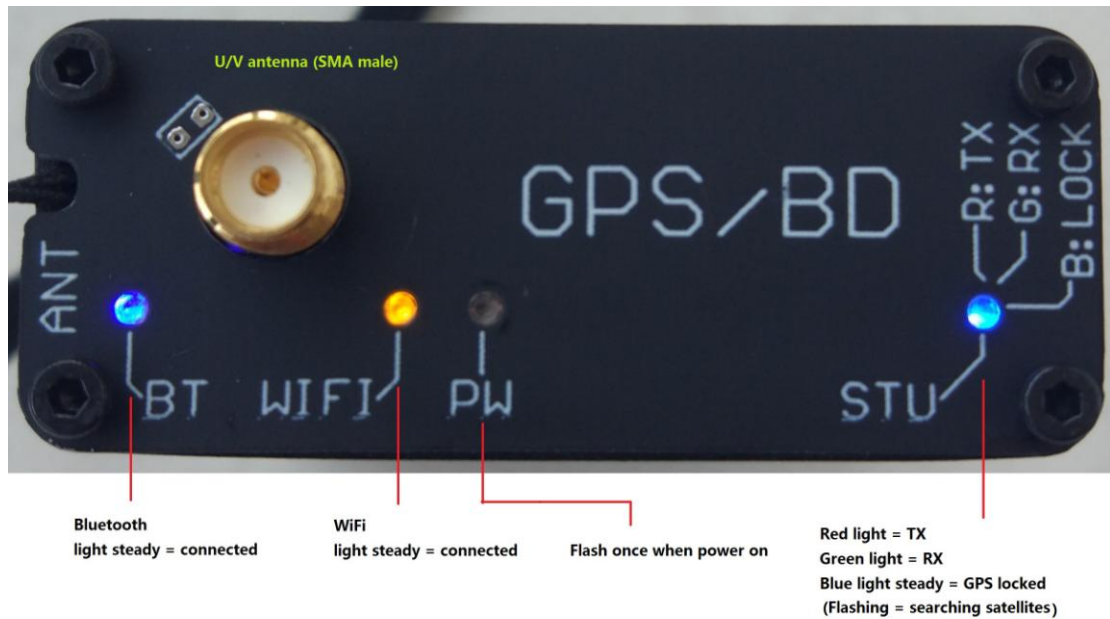**Weight:** 100 G (battery included)

Dimensions: 88 x 50 x 20 mm (antenna excluded)

Note: Typical GPS locking time is 1 – 5 minutes,please use the tracker outside!

      Do not use it under the water!

      Turn off the RF module if you only use WiFi to report position,as RF module causes heat!

Operating:

U/V antenna (SMA male)

GPS/BD

R: TX
G: RX
B: LOCK

ANT
BT   WIFI   PW   STU

Bluetooth
light steady = connected

WiFi
light steady = connected

Flash once when power on

Red light = TX
Green light = RX
Blue light steady = GPS locked
(Flashing = searching satellites)

IGATE/DIGI/TRACK
USB/WIFI/GPS/BT/RF 1W/STORE

Sensor

POWER   USB   CHG   TTL EXT

Push to Power on/off

Charger indicator

MicroUSB to computer;
Battery charger
Programing

TTL output
(Standard TTL serial)

Tempreture,Pressure sensor

TX RX GND

TTL EXT
3.5mm stereo

PUSH Buttons operation:

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F1    Switching Mode:   GPS  - List - Detailed Beacon

F2  F3  Switch GPS interface (In GPS mode)

F2  F3  Up and Down Switching (In List mode)
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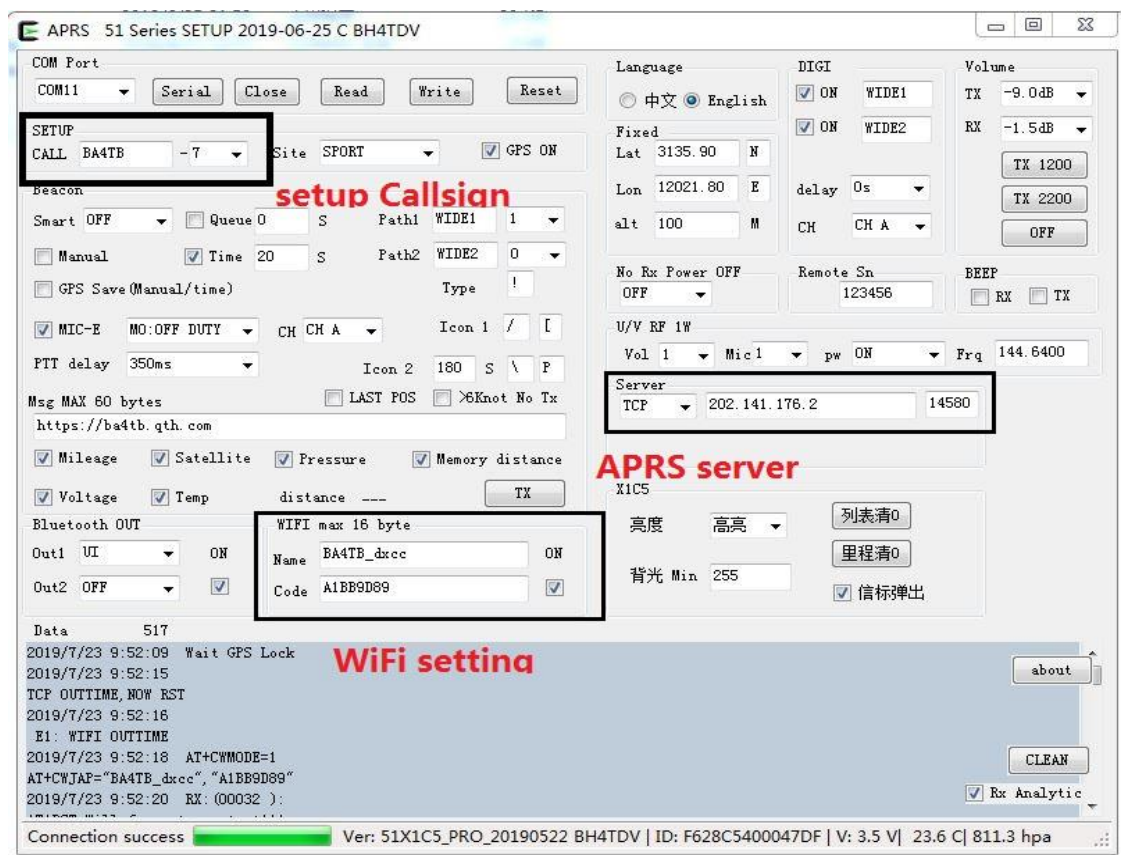
Software settings:

1, Power on the tracker.

2, Connect the USB cable between tracker and computer.

3, Install USB driver – CH341 chip and find the correct COM port.

4, Use APRS 51Series Setup(version number).exe to program the tracker.

About Smart Beacon:

Smart beacon automatically sends beacons according to heading speed

0=OFF

1= Turning is greater than 25 degrees, interval is 20 seconds, send a beacon, suitable for car

2= Turning is greater than 25 degrees, interval is 40 seconds, send a beacon, suitable for bicycles

3= Turning is greater than 25 degrees, interval 60 seconds, send a beacon, suitable for walking

4= Turning is greater than 25 degrees, interval is 90 seconds, send a beacon, suitable for slow speed such as mountaineering

5=The turn is greater than 25 degrees, the interval is 120 seconds, and the beacon is sent once, which is suitable for other slow energy saving states.

No matter which mode, the minimum transmission interval is 5 seconds. When the speed is 0, the beacon is sent every 3 minutes by default, and the icon is automatically converted into the second icon.

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