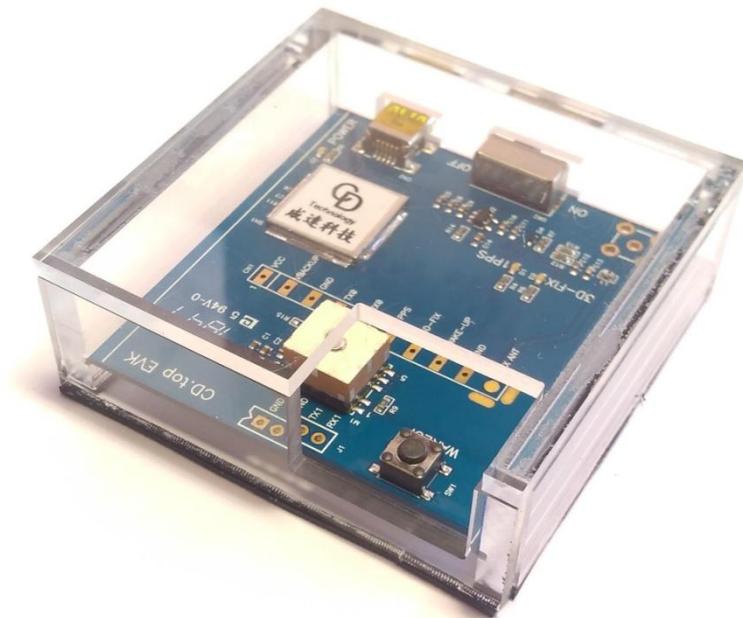# CDTop Technology
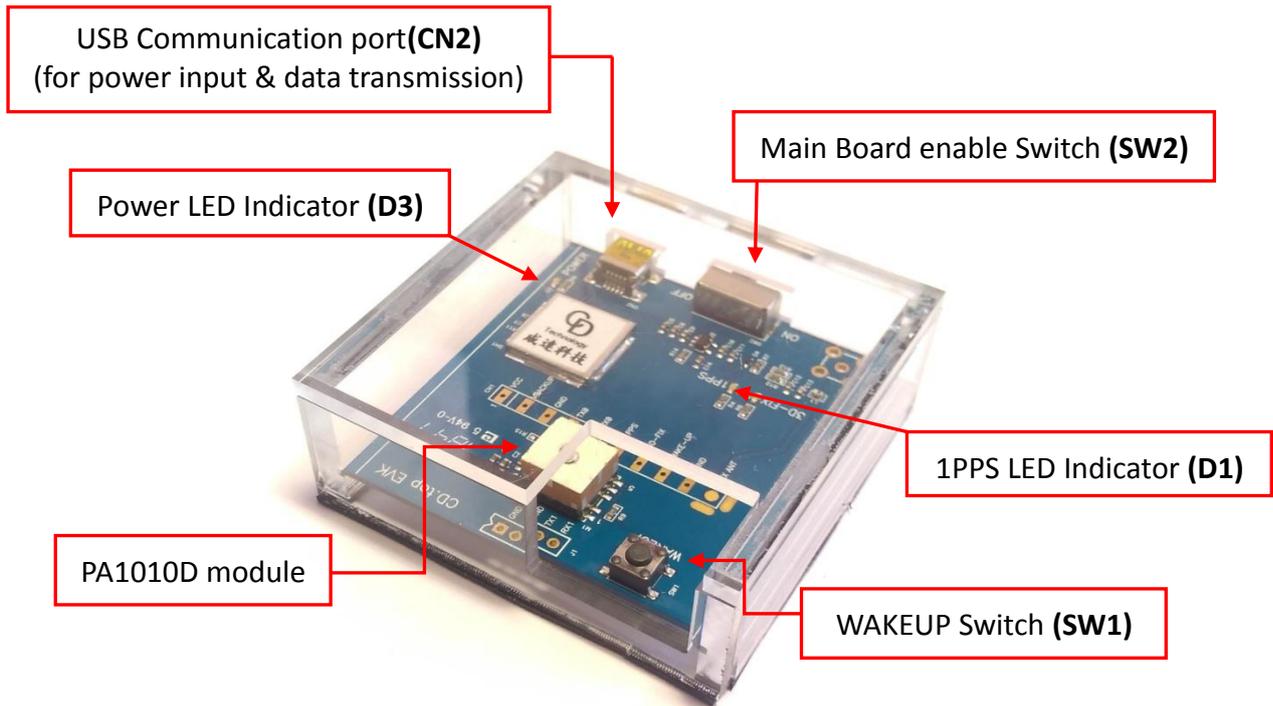

PA1010D Module
EV-Kit User Manual

1. Hardware overview：

The EV-Kit's detail device description is shown below on Picture 1.


USB Communication port**(CN2)**
(for power input & data transmission)

Power LED Indicator **(D3)**

Main Board enable Switch **(SW2)**

1PPS LED Indicator **(D1)**

PA1010D module

WAKEUP Switch **(SW1)**

(Picture 1.)

2. Operating Instruction

Step 1:

Connect the USB cable between PC and EV-Kit, the **Power LED Indicator(D3)** light On shown below as Picture 2. The USB cable is used to power the EV-Kit and transfer communication data.

USB data transmission

Power input
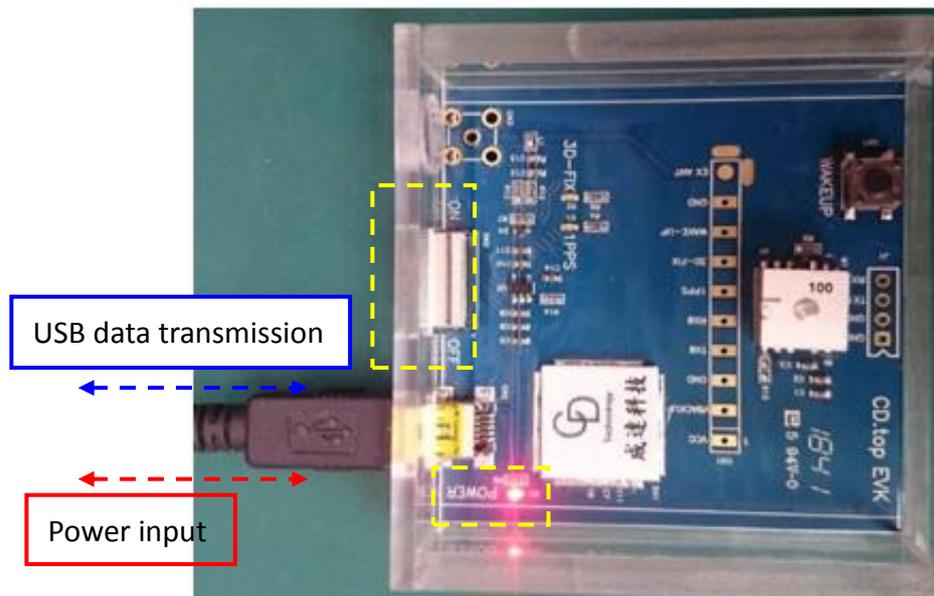
(Picture 2.)

Step 2:

Switch the **Main Board enable Switch(SW2)** from **OFF** to **ON**.
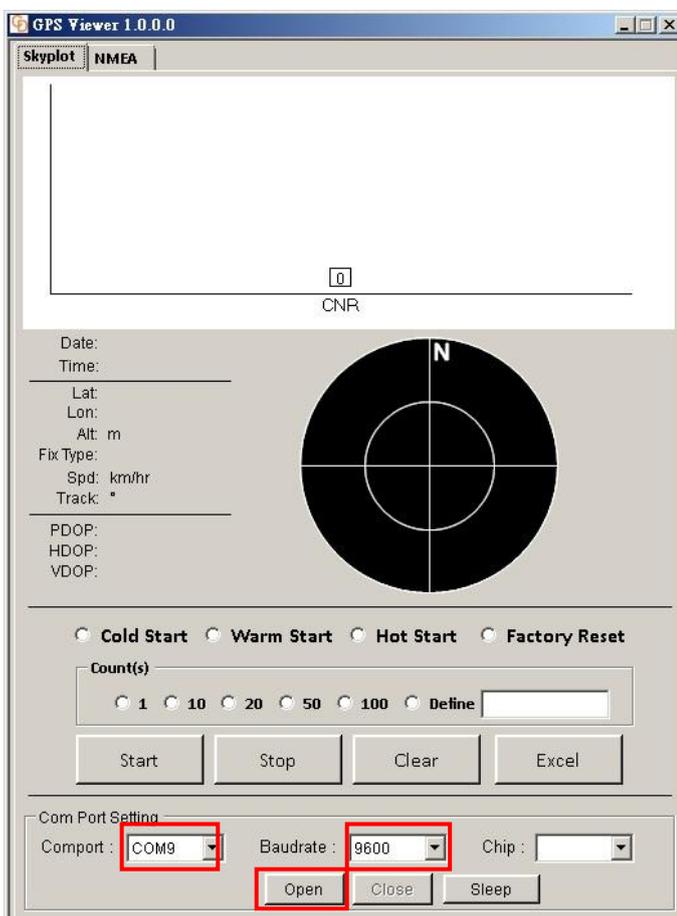
Step 3:

- Double click **< GPS Viewer.exe>** to start the application, the main screen of the program should appear like Picture 3 shown below.

- Select the appropriate <**COM Port**> and < **Baud Rate** > value, like Picture 3 shown below.
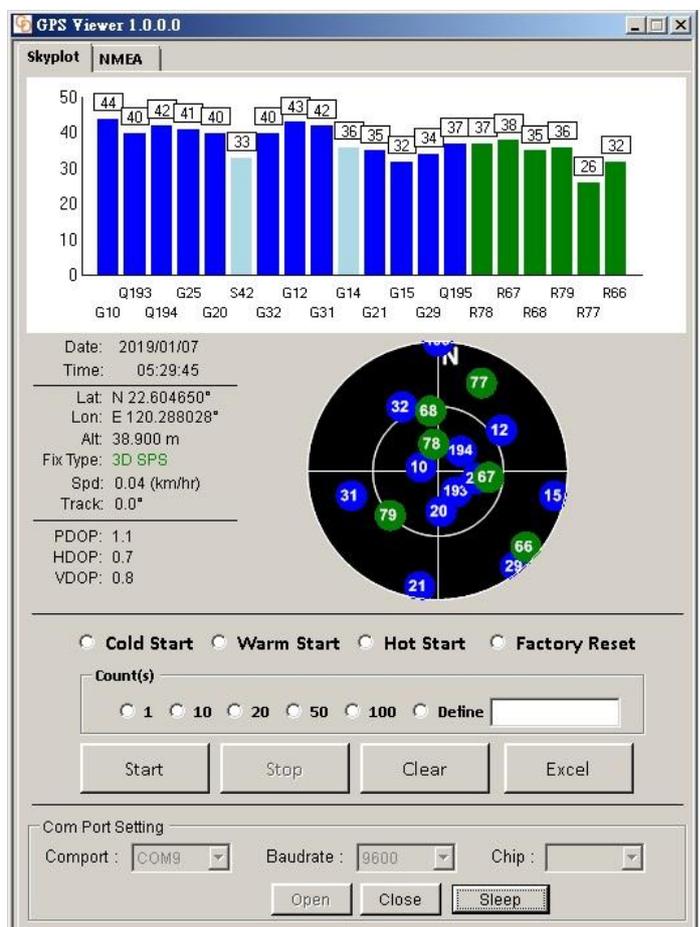
Note: if user can't find the new COM port display on **<Device Manager> / <Ports(COM&LPT)** when PC connect with EV-Kit, please download driver from Silicon Labs website page (https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers)
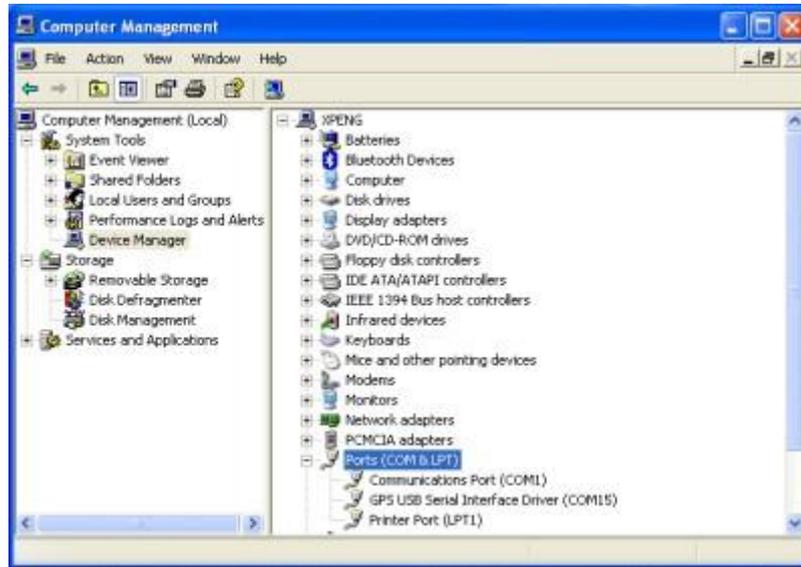
- Finally click <**Open**> like the following Picture 4.

(Picture 3.)

(Picture 4.)

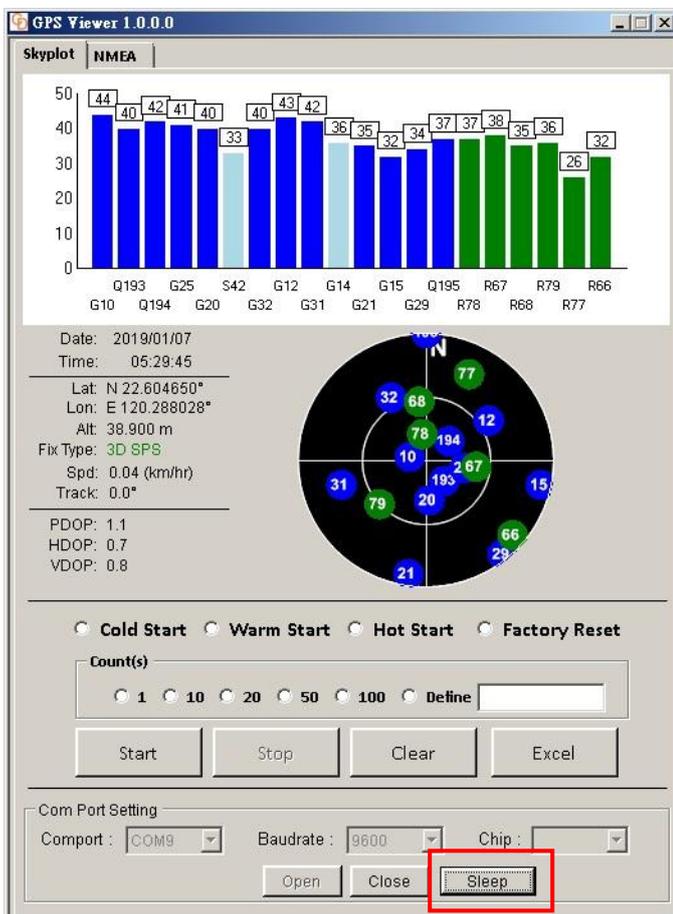- When PA1010D module finished positioning that **1PPS LED Indicator (D1)** green blinking like the below Picture 5.
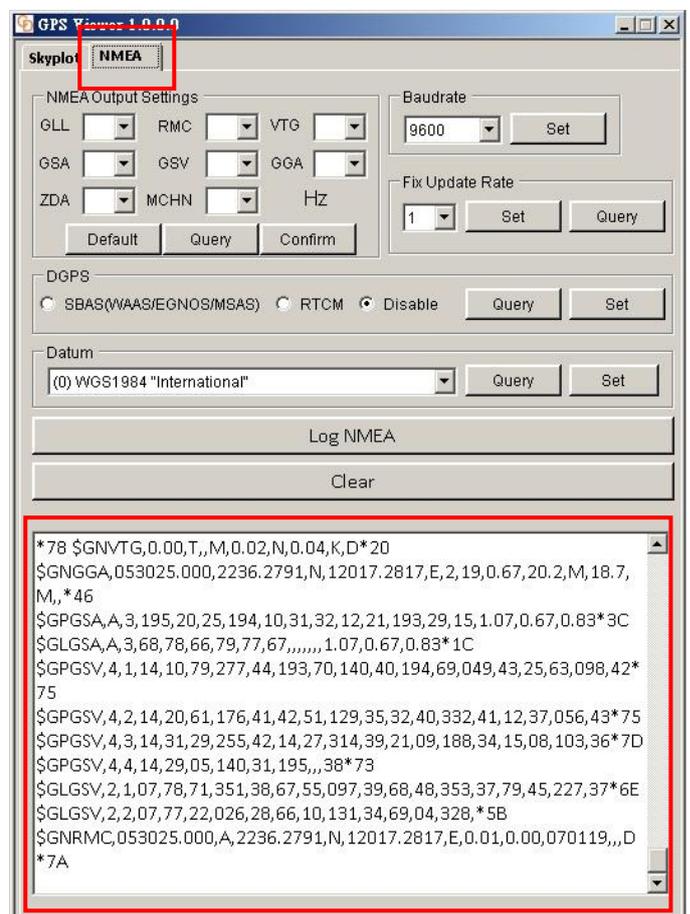
Step 4:

The PA1010D module entry **Backup mode**:

- Click <**Sleep**> , this action like send a NMEA command **$PMTK225,4*2F** to module entering to backup mode, refer to Picture 6 shown below.

- Check the **NMEA** page find the NMEA code stopping output, like Picture 7 shown below.
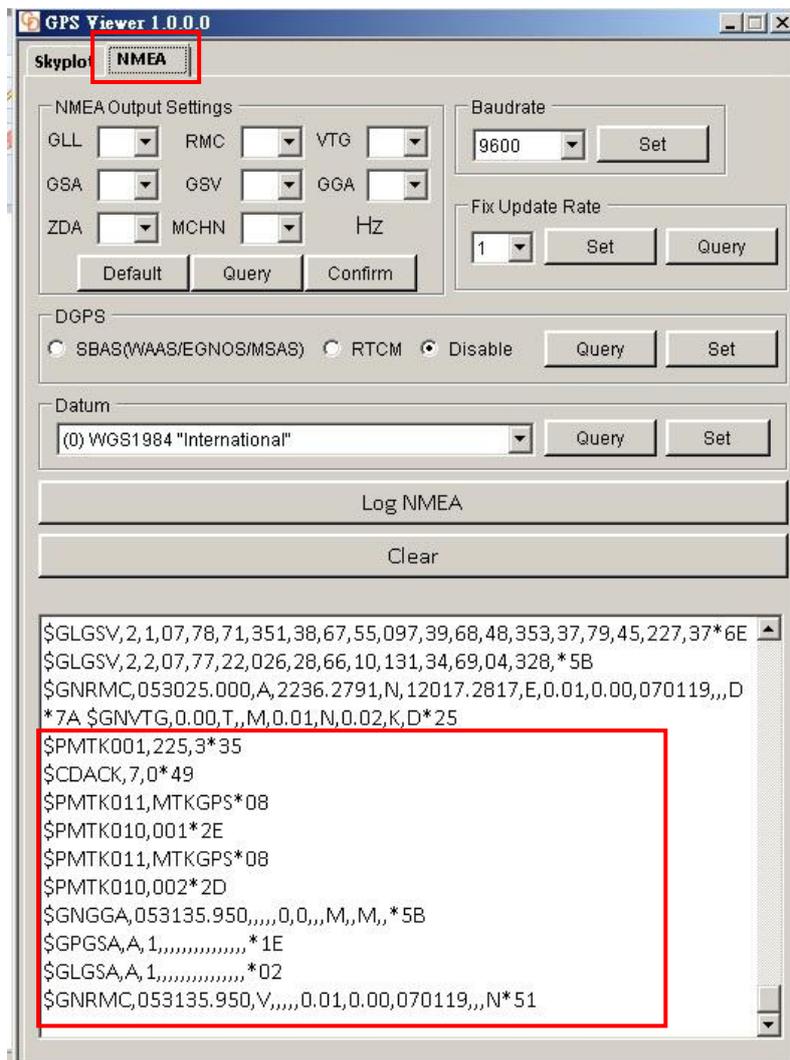
Step 5:

The PA1010D module returned to full power continuous mode:

- Push the **WAKEUP Switch(SW1)** more than 1 second, refer to Picture 8 shown below.

- The PA1010D module returned to full power continuous mode, find the acknowledgement response and the NMEA code continuous output, refer to Picture 9 shown below.

(Picture 8.)

(Picture 9.)