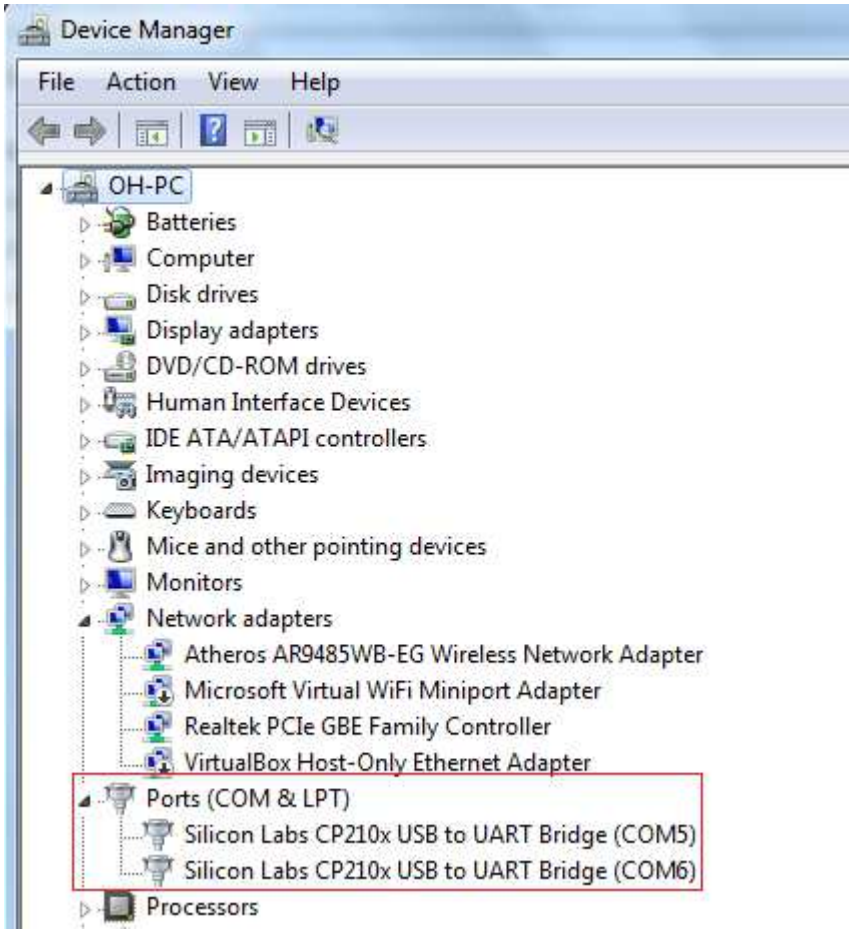
USING S2525F8-BD-RTK EVB

Install USB Driver

- http://www.silabs.com/products/mcu/Pages/USBtoUARTBridgeVCPDrivers.aspx

After connecting USB cables, should see 2 COM ports on Device Manager.

Take note of which physical connection results in which COM port



Get New GNSS Viewer

- http://navspark.mybigcommerce.com/content/tmp/GNSS_Viewer-CustomerRelease-2.0.167.zip

Default Rover Mode (USB)

Header Jumper Setting
for **USB** Interface

UART1 NMEA Output

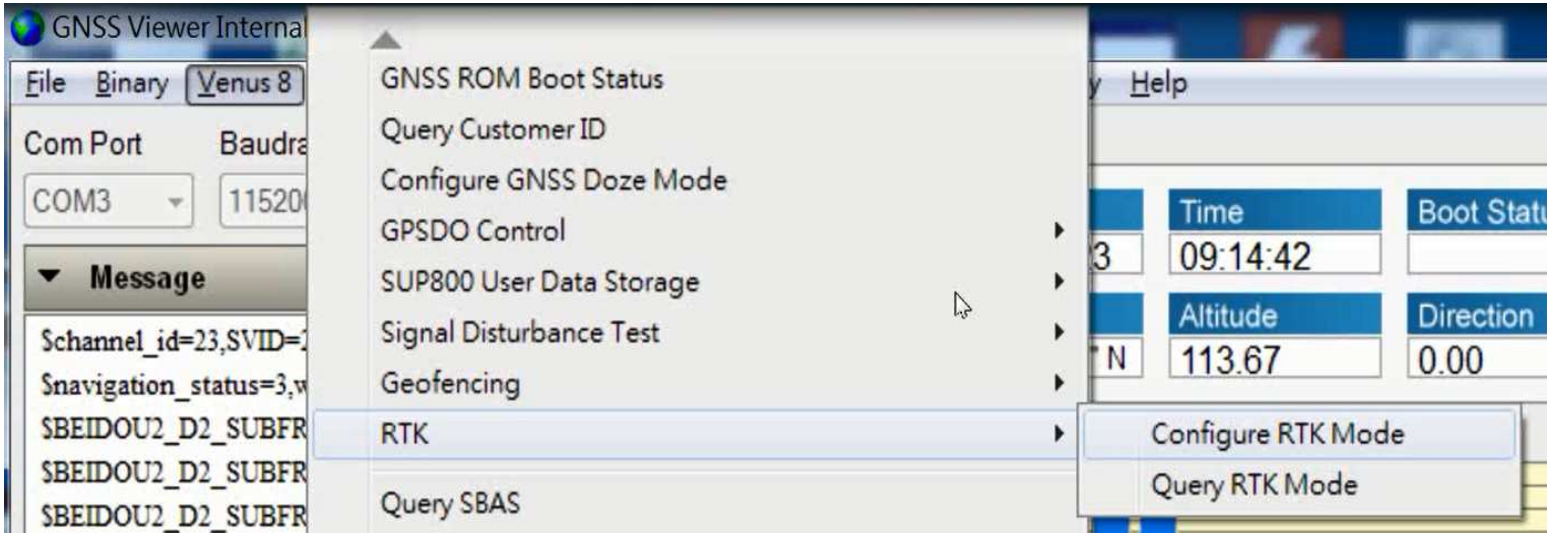
RTCM 3.x Input
or
SkyTraq raw measurement Input

UART2

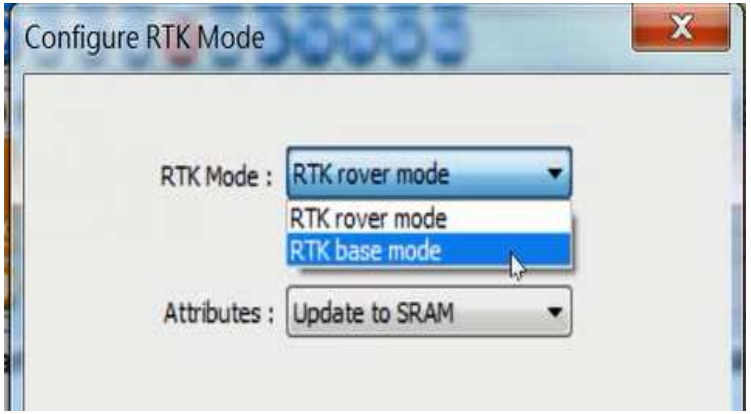
Setup as Base Station (1/2)

- From GNSS Viewer*

  Venus8 → RTK → Configure RTK Mode → RTK base mode



Using UART1 to send command

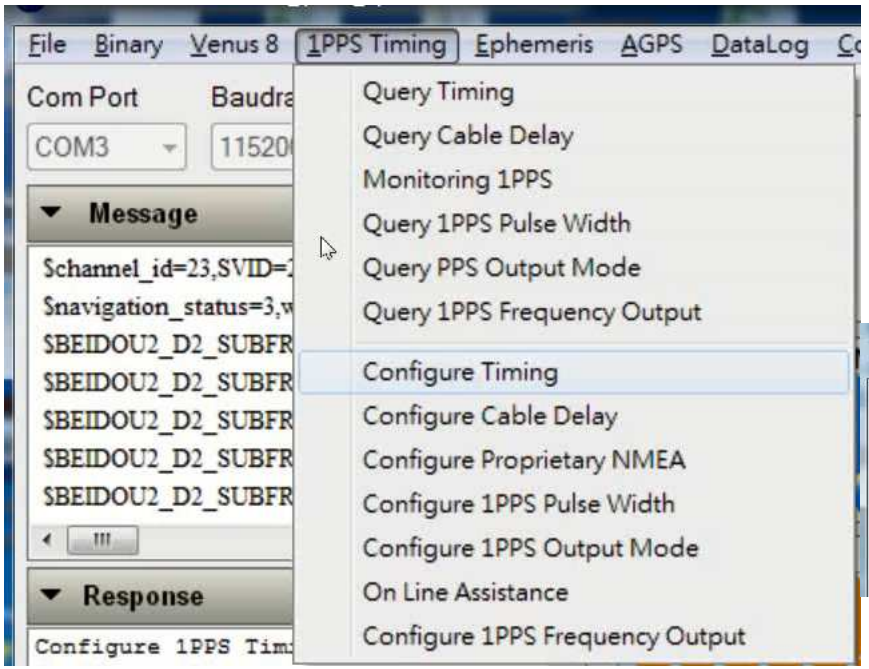


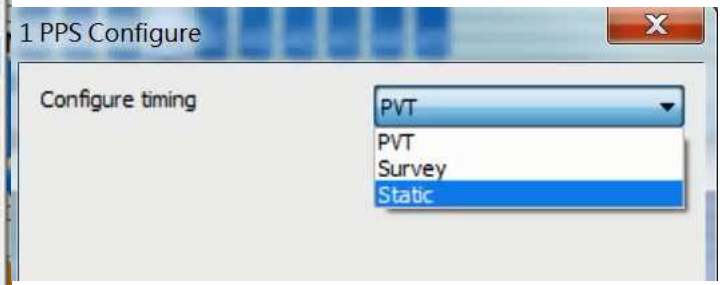
* Using SkyTraq GNSS Viewer V2.0.166 or higher

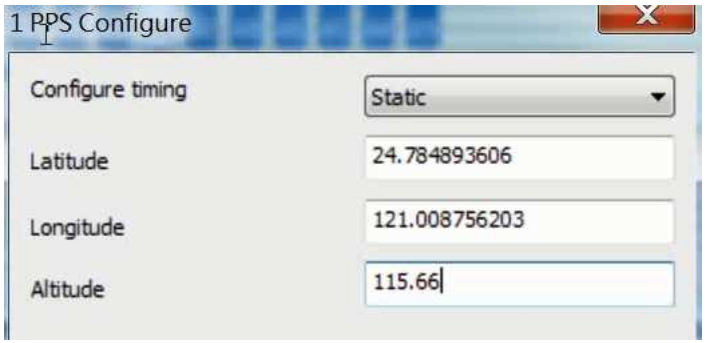
Setup as Base Station (2/2)

- From GNSS Viewer*

  1PPS Timing → Configure Timing → Static (*input base position*)







Using UART1 to send command

* Using SkyTraq GNSS Viewer
  V2.0.166 or higher

Base Station Mode (USB)

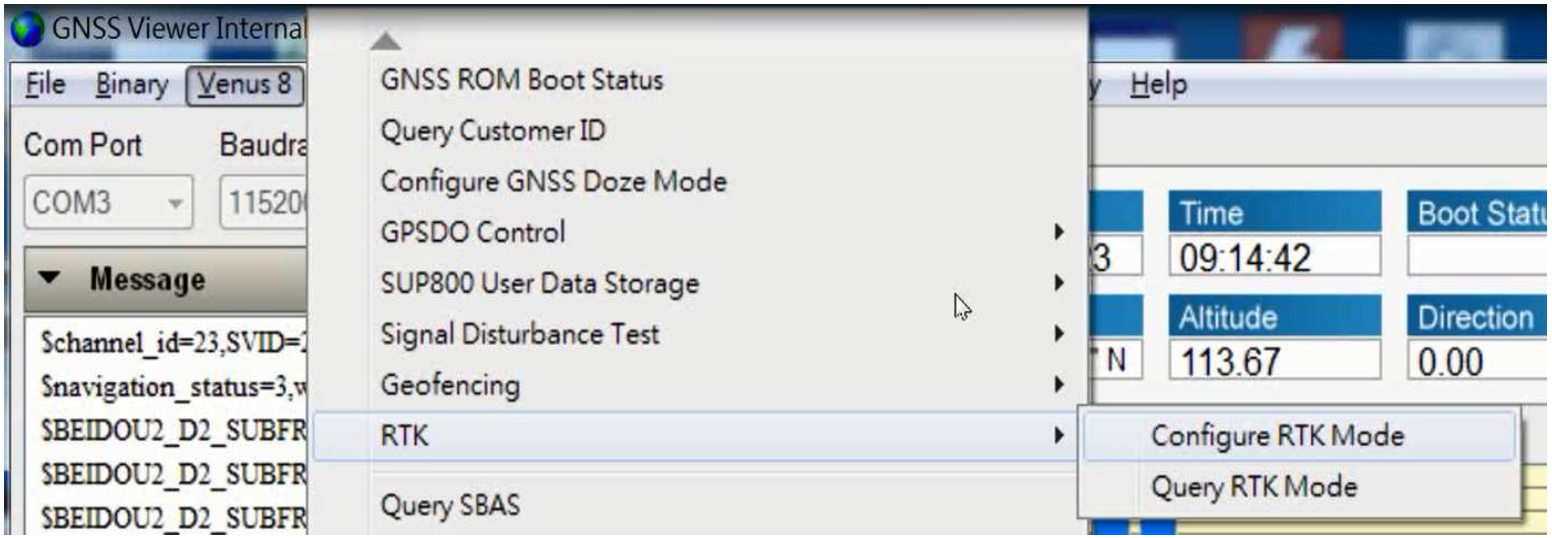
Header Jumper Setting
for **USB** Interface

SkyTraq raw measurement
Output

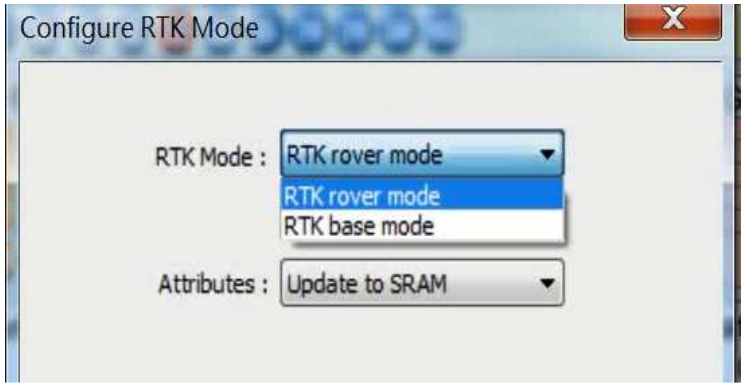
Setup as Rover

- From GNSS Viewer*

  Venus8 → RTK → Configure RTK Mode → RTK rover mode



Using UART1 to send command



* Using SkyTraq GNSS Viewer
  V2.0.166 or higher

Rover Mode (USB)

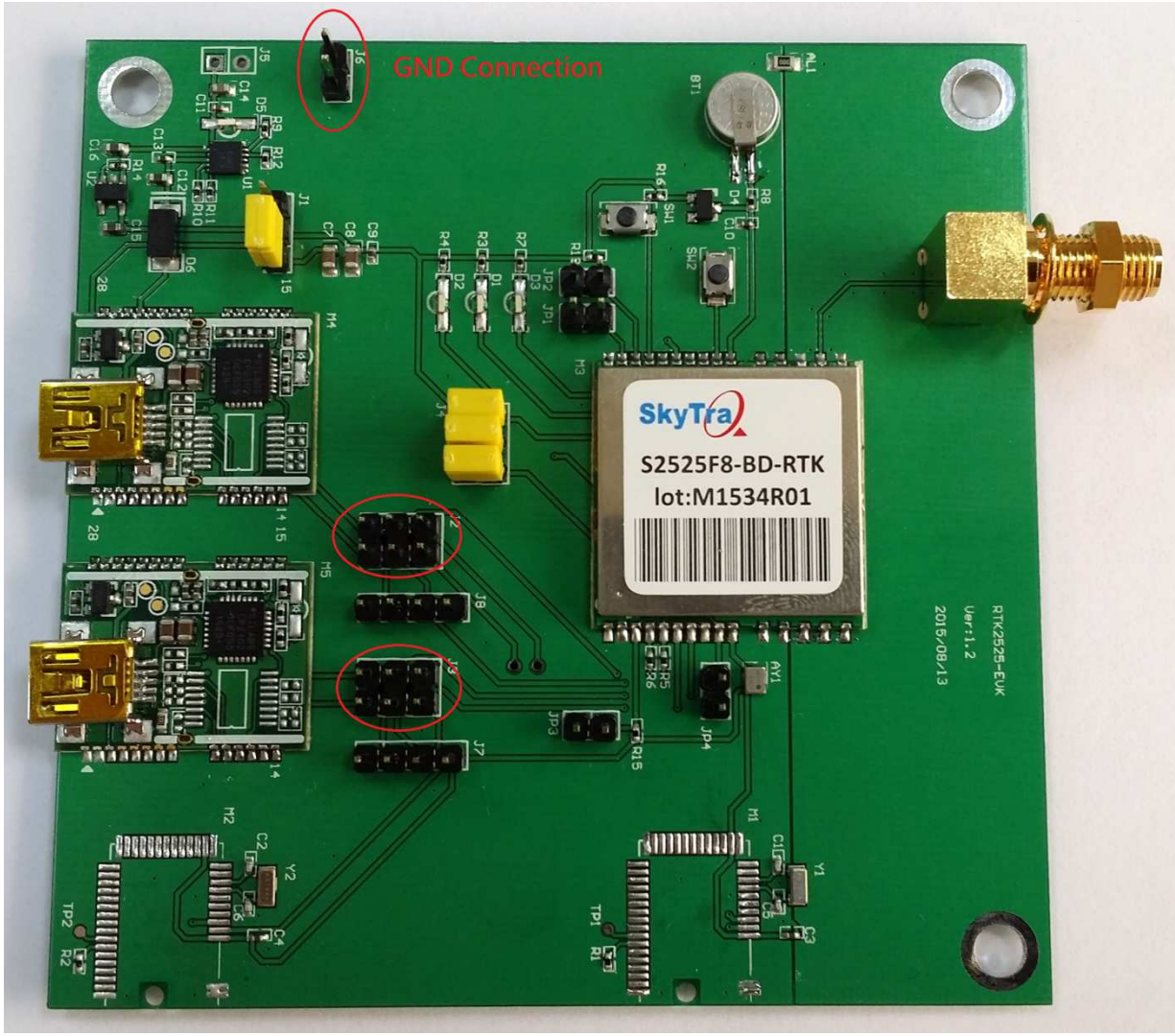
Header Jumper Setting
for **USB** Interface

NMEA Output

RTCM 3.x Input
or
SkyTraq raw measurement Input

3.3V TTL Interfacing

Remove J2 and/or J3 jumper and use these header pins

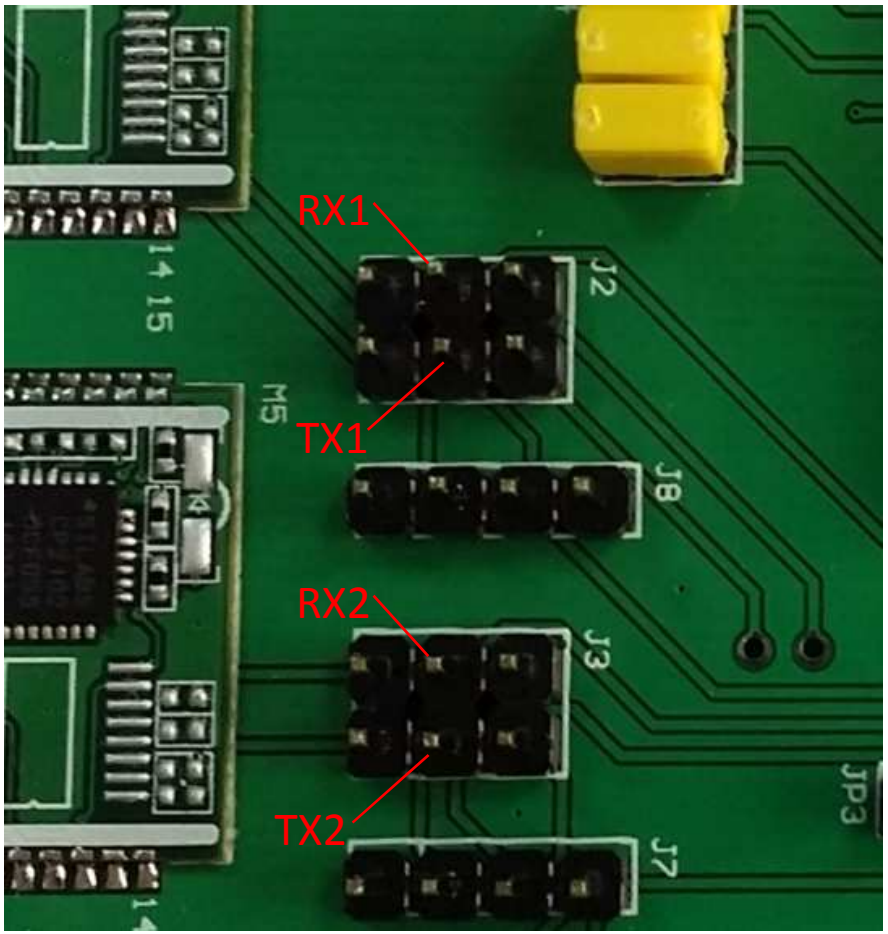


Rover Mode (TTL)

Header Jumper Setting
for **TTL** Interface

NMEA Output from TX1

RTCM 3.x Input
or
SkyTraq Raw Measurement Input
From RX2



Base Station Mode (TTL)

Header Jumper Setting
for **TTL** Interface

SkyTraq Raw Measurement Output
From TX1