

YIC



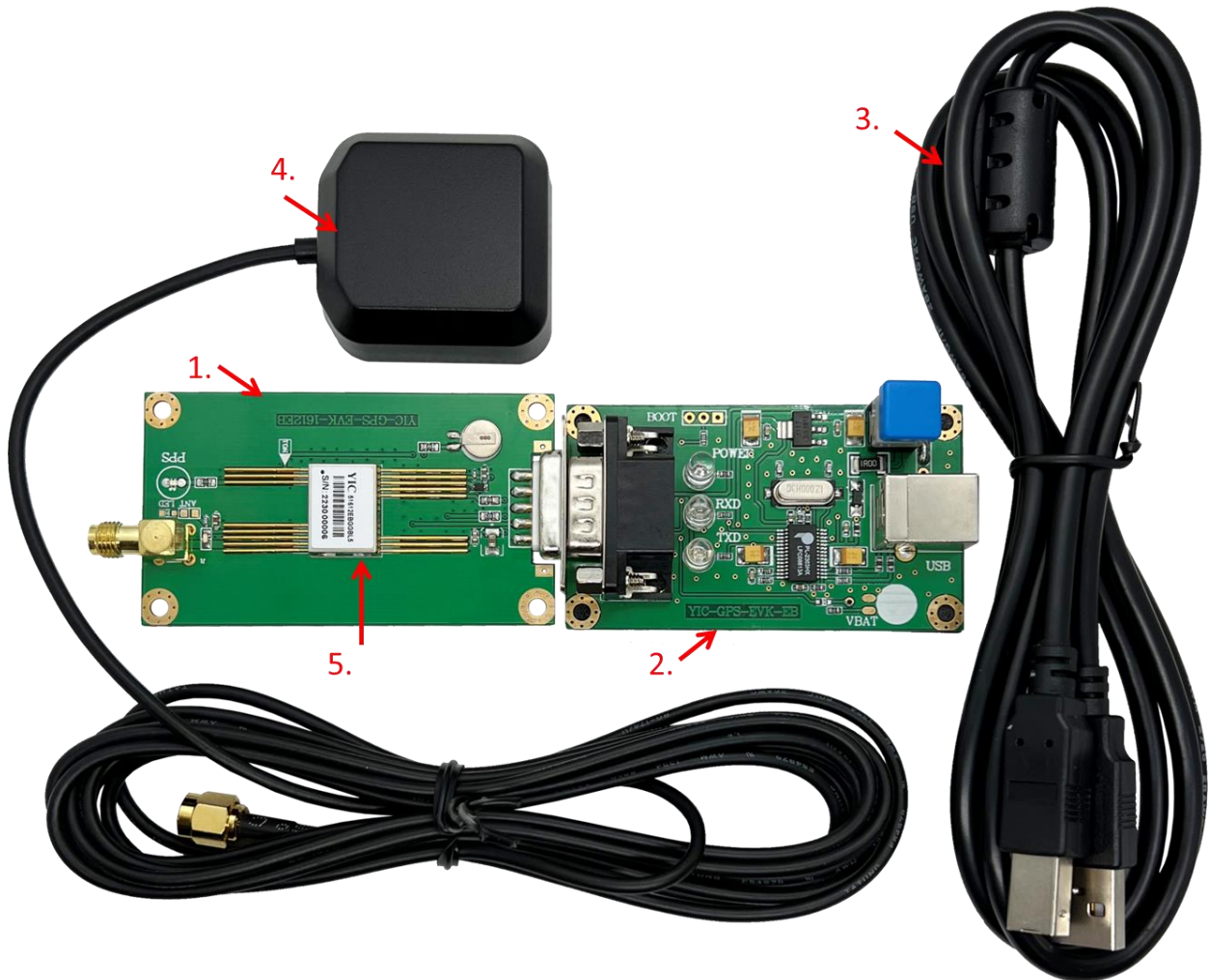
Evaluation Kit for YIC51612EB Series

EVK-YIC51612EBGGBL5

User Guide


www.yic.com.tw

1. Contents of EVK-YIC51612EBGGBL5

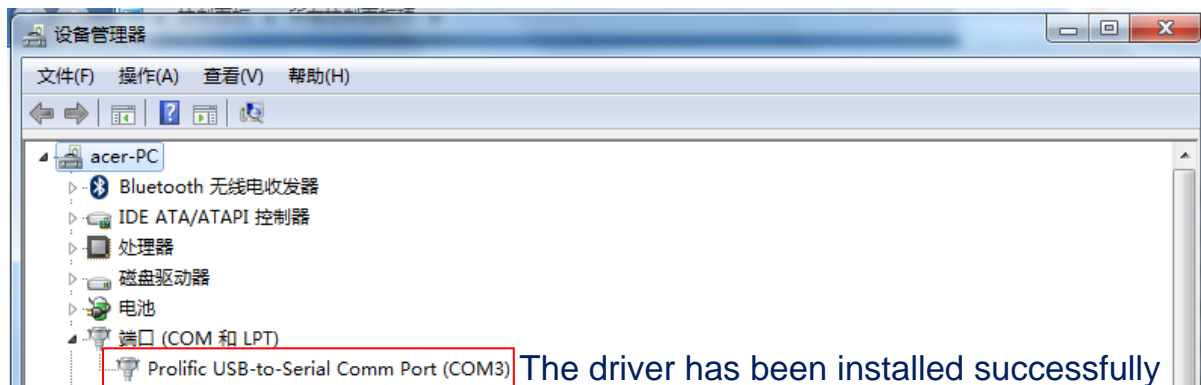


	Item	Description
1.	YIC-GPS-EVK-1612EB	Main Board
2.	YIC-GPS-EVK-1612EB	Adaptor Board
3.	USB Cable	USB Type B to USB Type A
4.	ATGGL54138M-SMA-3	Dual Band GNSS L1+L5 Antenna
5.	YIC51612EBGGBL5	Sub-1 Meter L1 + L5 GNSS Module

2. Install the PL2303 USB driver to PC

 PL2303_Prolific_DriverInstaller_v1210.exe

3.1 Install the PL2303 USB driver, open the computer control panel, check the corresponding serial port.

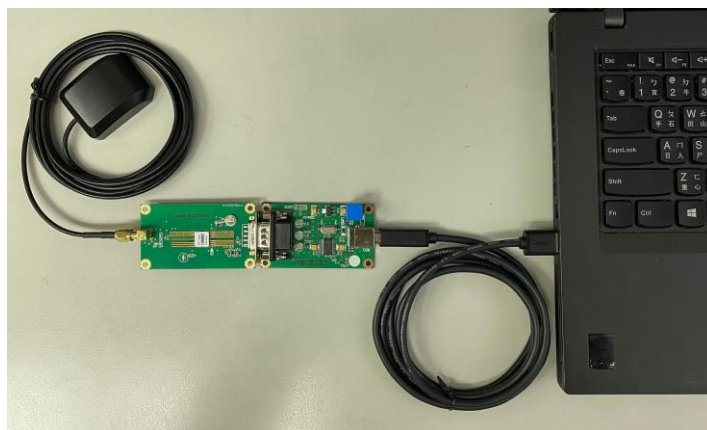


3. Connection diagram

3.1 Carefully slide the DUT GPS module into main board, pin 1 of the module corresponds to the arrow on main board.



3.2 Test connection



4. Install test software & start

4.1 For YIC51612EB series (MediaTeK chip based)

4.1-1 Install test software: GNSS Viewer

4.1-2 Software setting

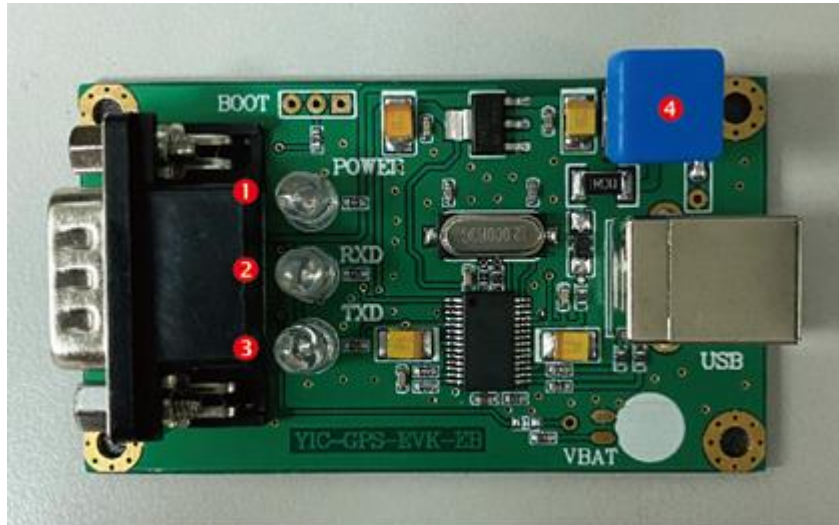
- ① Select the corresponding serial port
- ② Select the corresponding baud rate (9600 or 115200,.....)
- ③ Click Connect to start the test

The screenshot shows the GNSS Viewer Customer Release V2.0.120 for Venus 8 interface. Key elements include:

- Com Port:** COM5 (indicated by a red circle 1)
- Baudrate:** 9600 (indicated by a red circle 2)
- Connect:** Button (indicated by a red circle 3)
- Message:** NMEA output statement (indicated by a red box and label)
- Positioning time:** TTF 10, Date 2021/01/27, Time 01:29:07 (indicated by red boxes and label)
- UTC time:** Time 01:29:07 (indicated by a red box and label)
- Satellite Status:** GPS and GLONASS satellite status bars (indicated by red arrows and labels)
- Earth View:** 3D globe showing satellite positions (indicated by a red arrow and label)
- Scatter View:** 2D scatter plot of satellite positions (indicated by a red arrow and label)
- Coordinate:** WGS84_X, Y, Z and EAST, NORTH, UP values
- Command:** Hot Start, Warm Start, Cold Start, No Output, NMEA0183, Binary, Scan All, Scan Port, Scan Baud.

5. LED and Push Button description

5.1 Adaptor Board



- ① Red LED: POWER, always on when power on
- ② Blue LED: RXD, often light while DUT GPS module receiving data
- ③ Green LED: TXD, flash once per second when DUT GPS module start sending data
- ④ Push Button: POWER, push to power on and off the EVK

5.2 Main Board

PPS LED: Flash once per second after satellite position fixed