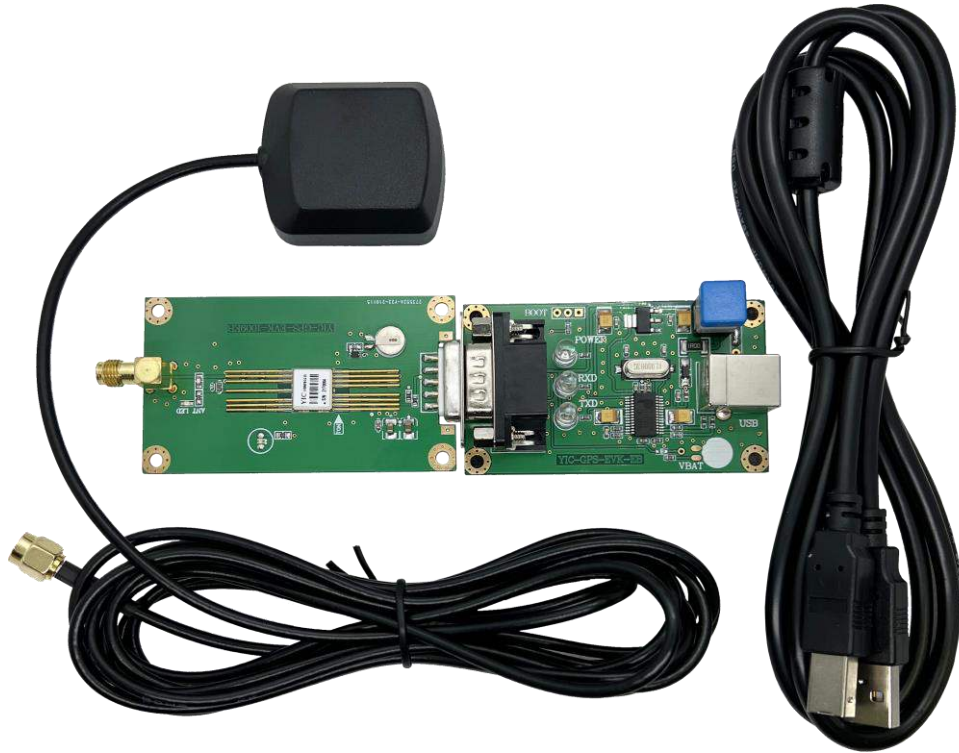


YIC



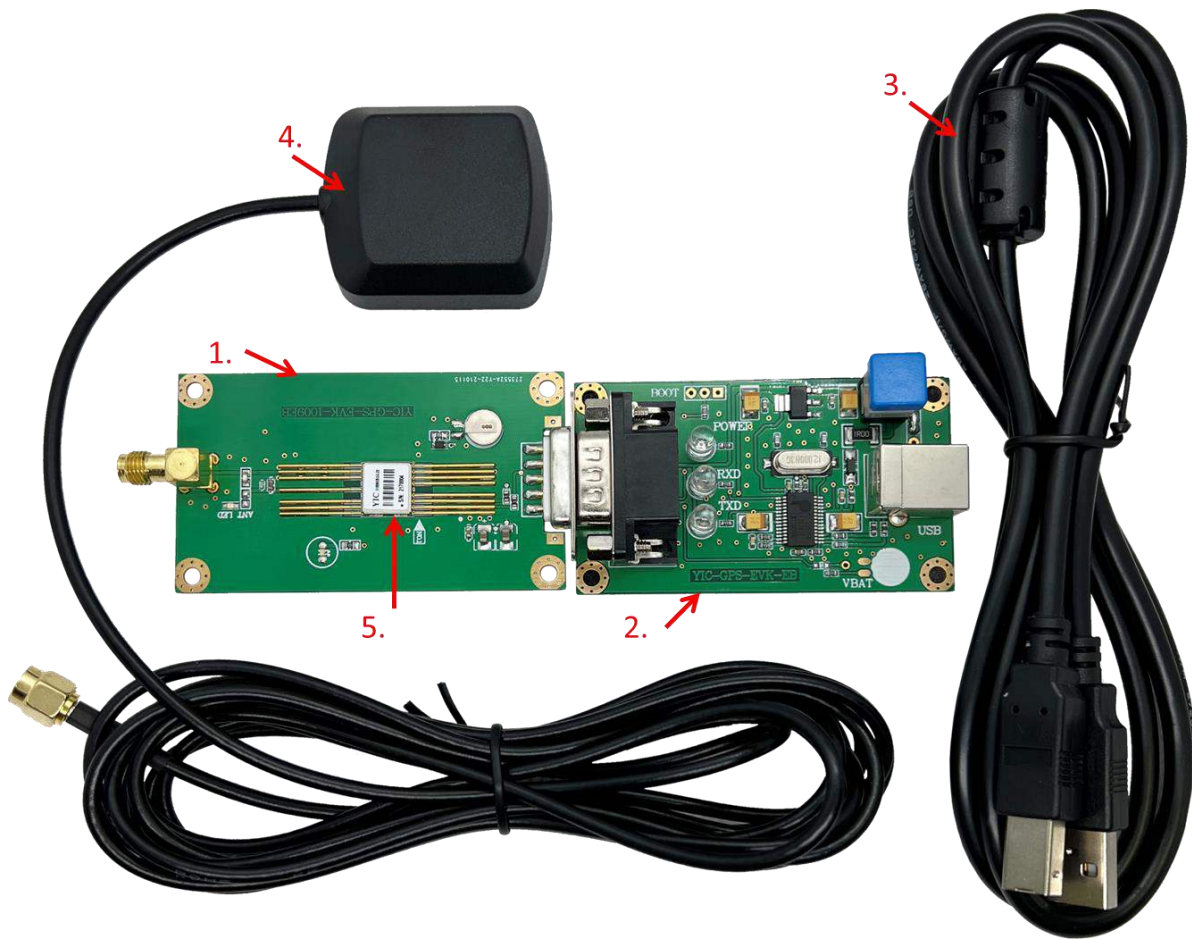
Evaluation Kit for YIC31009EB Series

EVK-YIC31009EBGG

User Guide


www.yic.com.tw

1. Contents of EVK-YIC31009EBGG

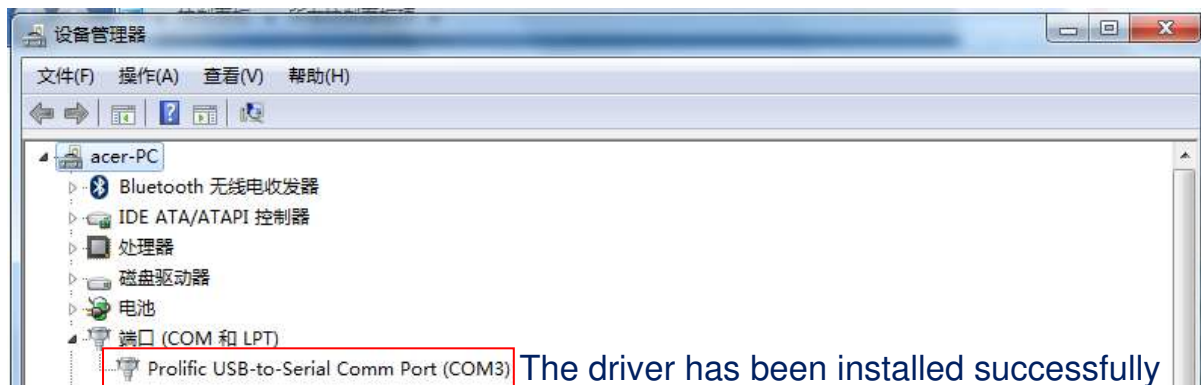


	Item	Description
1.	YIC-GPS-EVK-1009EB	Main Board
2.	YIC-GPS-EVK-1009EB	Adaptor Board
3.	USB Cable	USB Type B to USB Type A
4.	ATGG4336M-SMA-3	Single Band GNSS L1 Antenna
5.	YIC31009EBGG	GPS+GLONASS Module

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.

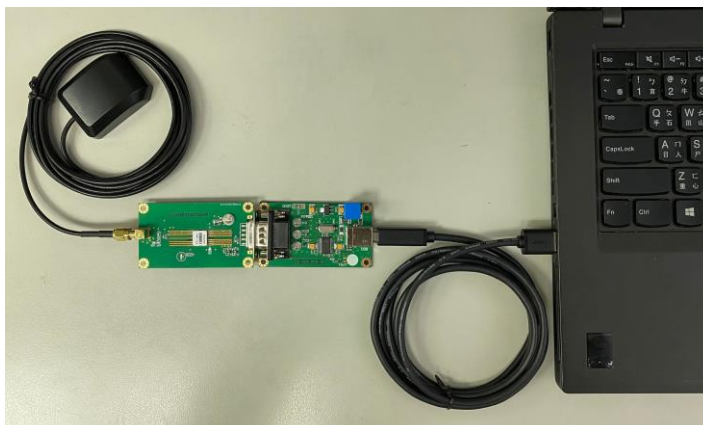


3. Connection diagram

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 YIC31009EB series (Goke chip based)

4.1-1 Install test software: naviTrack

4.1-2 Software setting

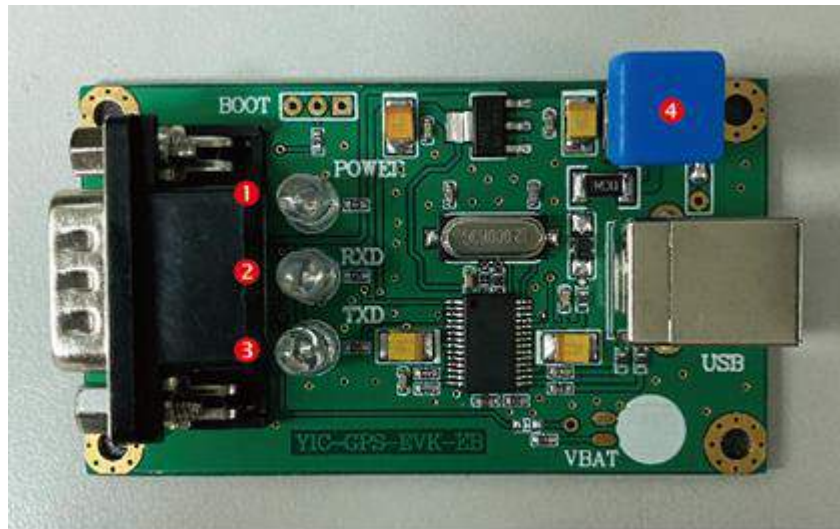
- ① Select the corresponding serial port
- ② Select the corresponding baud rate (9600 or 115200,.....)
- ③ Click Connect to start the test

The screenshot displays the naviTrack software interface with several key components:

- Top Left Panel:** Configuration area for COM port and BAUDRATE (set to 9600). A "DisConnect" button is visible. Red circles 1, 2, and 3 highlight the COM dropdown, the BAUDRATE dropdown, and the "DisConnect" button respectively.
- Top Middle Panel:** "Track" window showing a reference position plot with fields for "First", "Lat", "[D] Lag", "[D] Hgt", and "[m] OK".
- Top Right Panel:** "Velocity" window featuring two analog gauges. The left gauge shows 0.0000 Km/h, and the right gauge shows 250.15 W.
- Middle Right Panel:** "Signal" window titled "GNSS satellite positioning information" showing a bar chart of C/N0 for various PRNs (Q3, Q4, Q8, Q16, Q21, Q22, Q27, Q195, R72, R75, R84, R85).
- Bottom Left Panel:** "Sky view" window showing a circular constellation diagram of GPS satellites.
- Bottom Middle Panel:** "NMEA info" window displaying a stream of NMEA sentences. A red label "NMEA output statement" points to this window.
- Bottom Right Panel:** "Fix mode" window showing a plot of "Fix Mode" and "SPS Quality" over time.

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