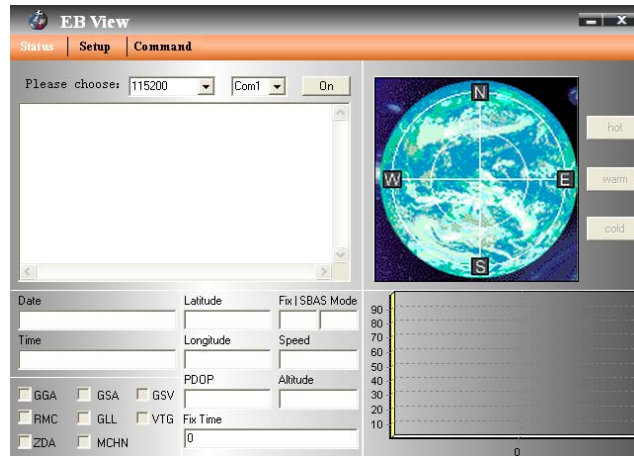


EBView Application Note



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TRANSYSTEM INC.

No. 1-2 Li-Hsin Rd. I, Science-Based

Industrial Park, Hsinchu, Taiwan

T : +886-3-5780393 / F : +886-3-5784111

www.transystem.com.tw

sales@transystem.com.tw

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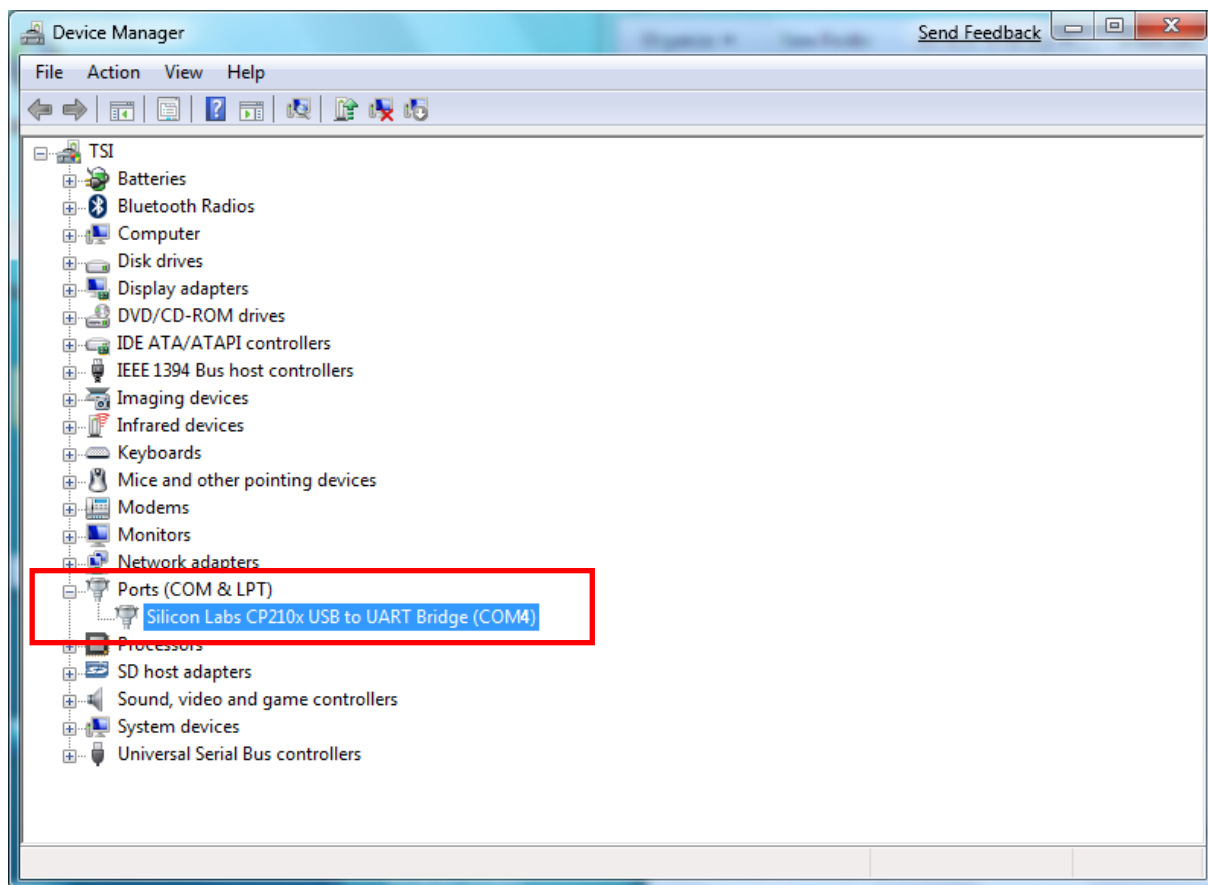
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The EBView program only supports the Microsoft Windows XP, Vista and Win 7 OS.

1.1. Driver Installation

Connect EB-500 EVK to PC and then click “CP210xVCPInstaller.exe” to start the installation process. The device manager will assign a COM port for EB-500 EVK after USB driver has been successfully installed.



1.2. EBView software

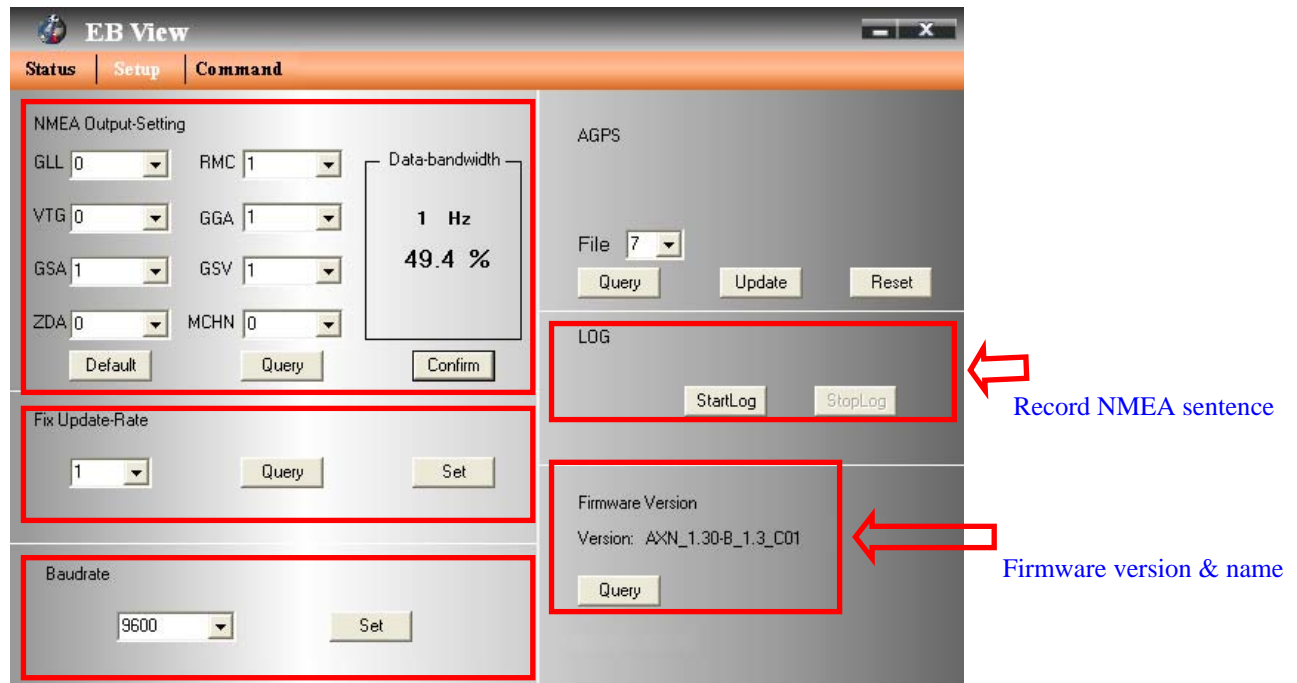
Open EBView software and select correct COM port and Baud Rate and then click “On” button to establish the communication between GPS and PC. If the connection is successful, the NMEA stream will keep showing.

The screenshot shows the EB View software interface with the following components highlighted:

- Setup Tab:** The "Please choose:" section is highlighted, showing "9600" for Baud Rate, "Com4" for the COM port, and "Off" for the connection status.
- NMEA Stream:** A list of NMEA sentences is shown, including "\$GPGGA", "\$GPGSA", "\$GPGSV", and "\$GPRMC".
- Map:** A globe showing satellite positions with numbers 03, 06, 07, 11, 13, 16, 19, 21, 23, 24, 31, and 42.
- Test Buttons:** Three buttons labeled "hot", "warm", and "cold" are highlighted, with a red arrow pointing to them and the text "Cold, warm and hot start test button".
- NMEA Output Setting:** A section with checkboxes for GGA, GSA, GSV, RMC, GLL, VTG, ZDA, and MCHN is highlighted, with a red arrow pointing to it and the text "NMEA output setting".
- Satellite Reception:** A bar chart showing satellite reception for various satellites, with a red arrow pointing to it and the text "Satellite reception".
- Satellite No.:** A list of satellite numbers (03, 06, 07, 11, 13, 16, 19, 21, 23, 24, 31, 42) is highlighted, with a red arrow pointing to it and the text "Satellite No.".

1.3. Configuration

In **Setup** Page, Output frequency of each NMEA can be changed from 1second to 5 seconds and Fix update-Rate can be changed from 1 time to 5 times per second. Baudrate can be manually set to 4800, 9600, 14400, 19200, 38400, 57600, 115200. Here also allow users to update the AGPS and record the NMEA sentence.



In **command** page, Datum is a map reference systems, it allows GPS device can set difference measurement mode. DGPS like WASS, EGNOS, MSAS can be enable or disable. Device Name only can use on customization firmware for the special case application.

EB View
Status | Setup | **Command**

Datum
[0]wGS1984"International"
Query Set

DGPS
Current Status: ☒ Enable ☐ Disable Query
Setting: ☐ Enable ☒ Disable Set

Device Name
Read Write

Send Command
\$PMTK Send

Satellite Channel

Channel	SVID	SNR	Status
1	03	46	
2	06	45	
3	07	41	
4	11	37	
5	13	45	
6	16	42	
7	19	41	
8	21	34	
9	23	45	
10	24	40	
11	31	40	
12	42	40	

EB View
Version 1.0.2 Aug 18th 2009
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Send command to GPS device



Satellite No. and satellite
Signal to Noise Ratio

1.4. Update AGPS

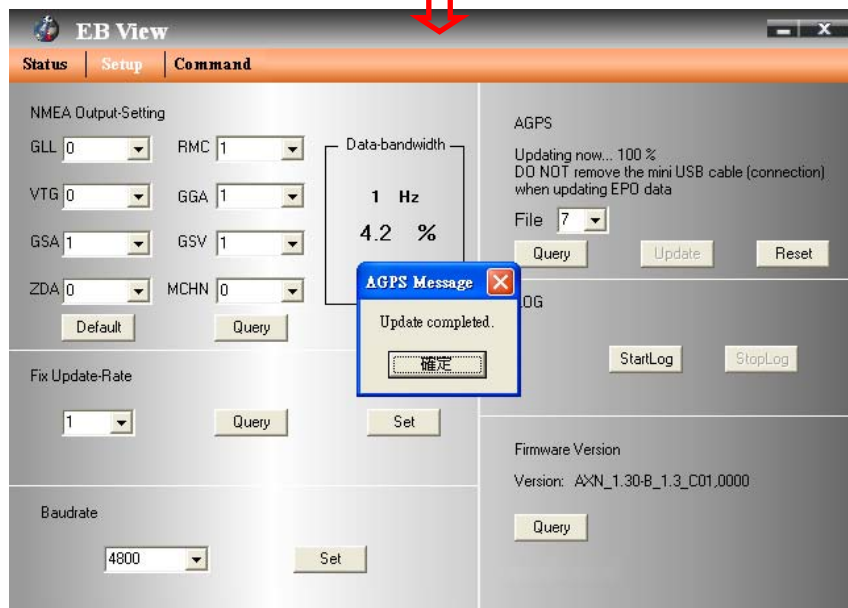
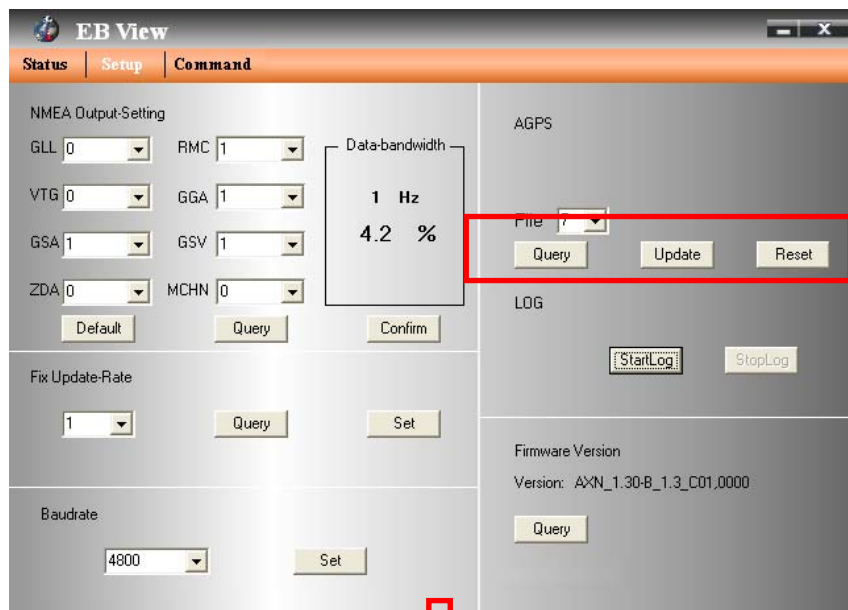
Step1. Make sure you have network available for accessing the internet.

Step2. Connect GPS to PC and then open EBView to establish the communication.

Step3. Go to “**Setup**” page

Step4. Click “**Update**” button under AGPS to update the AGPS data. The program will connect to the AGPS server and download the data automatically. You can also check the valid time of AGPS by clicking **Query**.

Clear AGPS data by clicking **Reset**.



Note: AGPS has 7 or 14 days time limited depend by your selection.