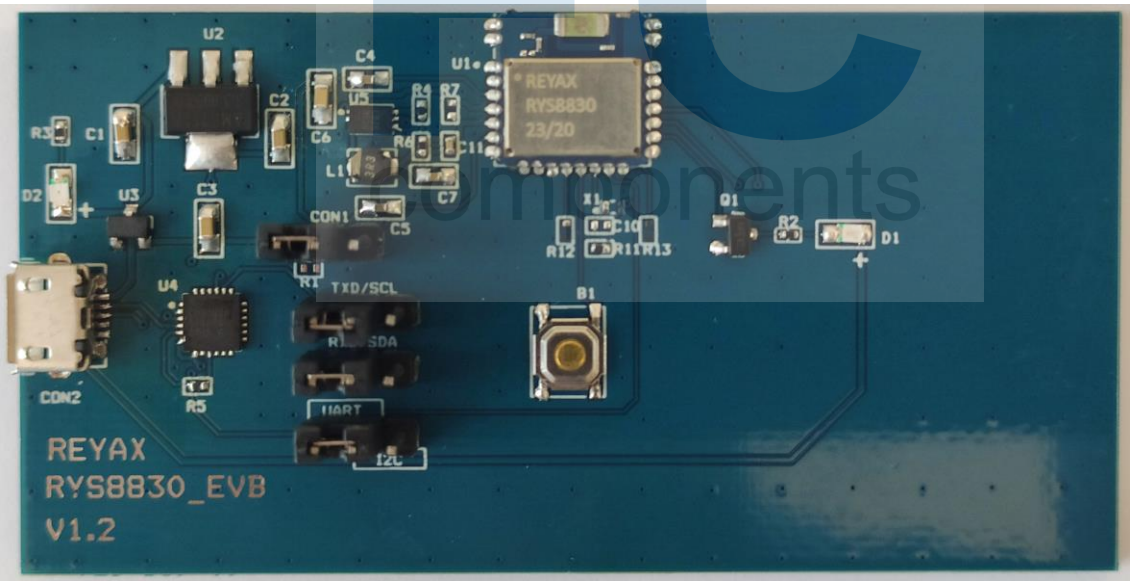
REYAX
TECHNOLOGY CORPORATION, LTD

12-DEC-2022 56312E35

RYS8830_EVB

Small form factor & Ultra Low Power **1.8V** UART/I2C interface GNSS antenna module evaluation board

Datasheet



Represented by:
first FC components
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PRODUCT DESCRIPTION

The RYS8830_EVB evaluation board makes evaluating the RYS8830 simple. The built-in USB interface provides both power supply and data transfer. The REYAX evaluation board make them ideally suited for use in laboratories, vehicles and outdoor locations. Furthermore, they can be used with a notebook PC, making them the perfect companion through all stages of design-in projects.

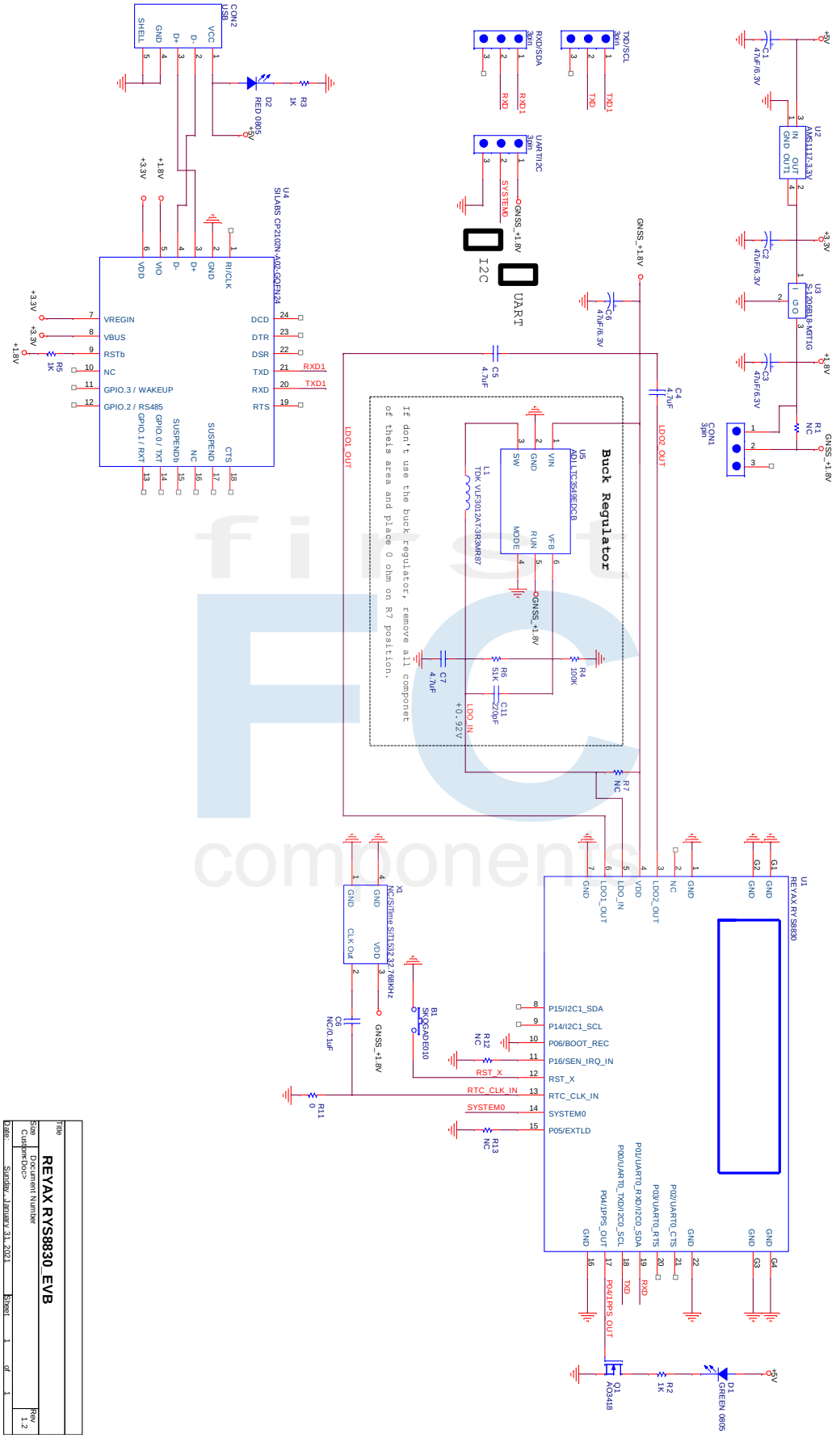
FEATURES

- SONY CXD5605AGF multi-GNSS receiver for GPS, GLONASS, SBAS, QZSS, BeiDou and Galileo
- Small SMD form factor 121mm^2
- Enhanced GNSS Filter and Low Noise Amplifier
- Ultra-low power consumption
- Up to Position accuracy 1.0 m CEP
- Embedded Antenna

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EVB SCHEMATIC



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GNSS Monitor software

STEP 1. INSTALL THE SOFTWARES

1.) Download the GNSS_Monitor2_ForCustomer_Setup(contact REYAX sales)

STEP 2. CONNECTION SETTING

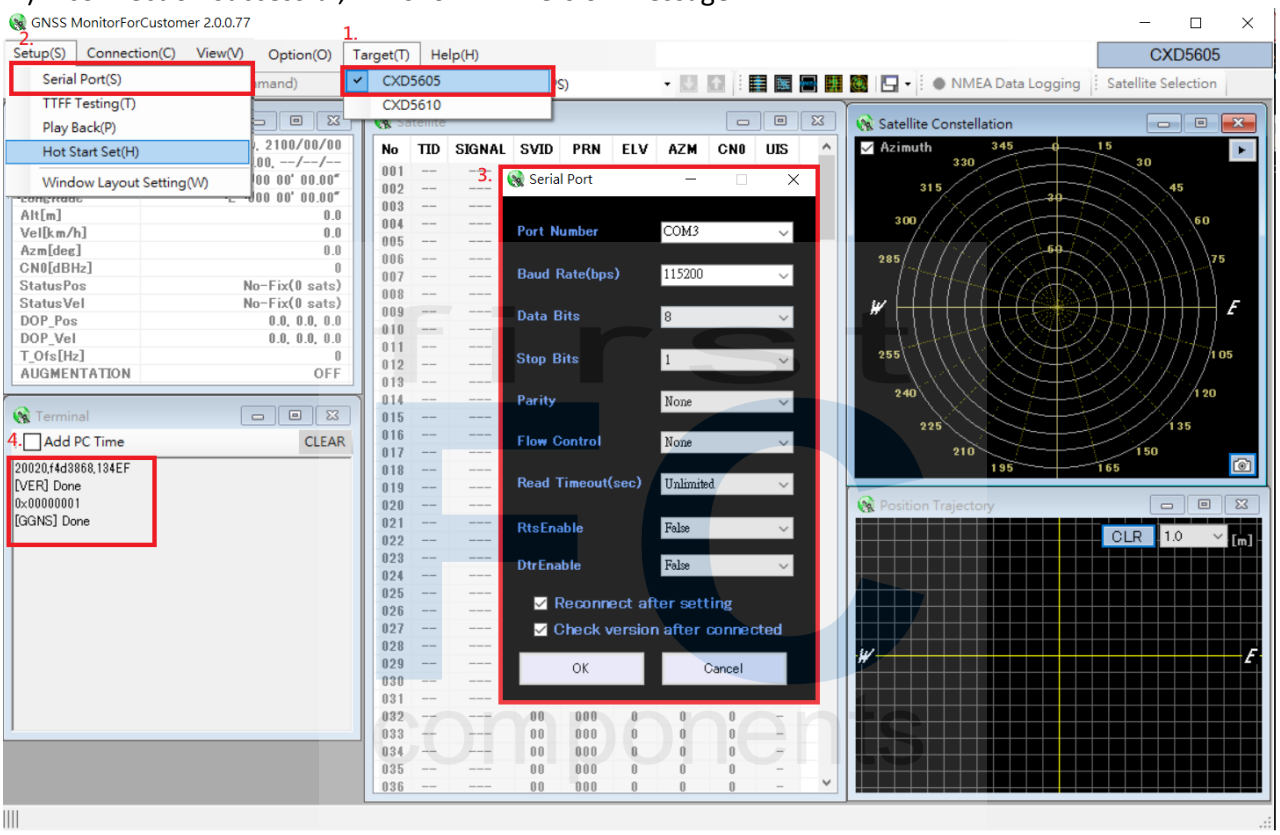
Plug USB to TTL cable to connect the RYS8830_EVB and the PC.

1.) Open the software GNSS_Monitor2_ForCustomer Target →RYS8830 select CXD5605

2.) Open the Serial Port setting

3.) Set the COM port number and the baud rate (Default is 115200bps).

4.) If connection successful, will show FW version message.



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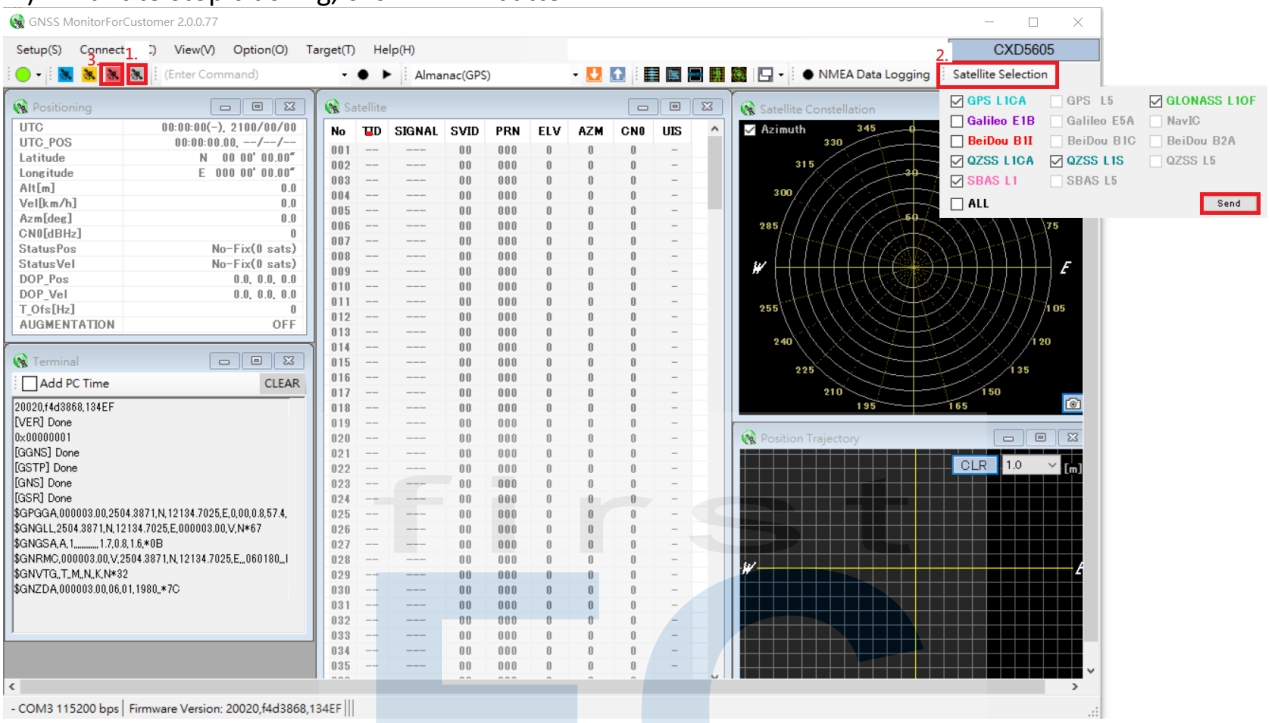
STEP 3. Command input setting

1.) Click “IDLE” button, Terminal window will show [GSTP]Done.

2.) Click “Satellite Selection” button, after select Satellite and click “Send”. Terminal window will show [GNS]Done.

3.) Click “Hot start” button, Terminal window will show [GSR]Done. Module start output NMEA log.

4.) If want to stop tracking, click “IDLE” button.



*For detailed command user guide, please refer to RYS8830_RYS8833_Software_Guide

QUICK START GUIDE

STEP 1. Power on module

STEP 2. Issue command

1.) @GSTP // Positioning stop

2.) @GNS 47 // Positioning-use satellite use GPS + GLONASS + SBAS + QZSS L1-CA + QZSS L1-S

3.) @GTIM 2022 12 20 00 00 00 // inject UTC time

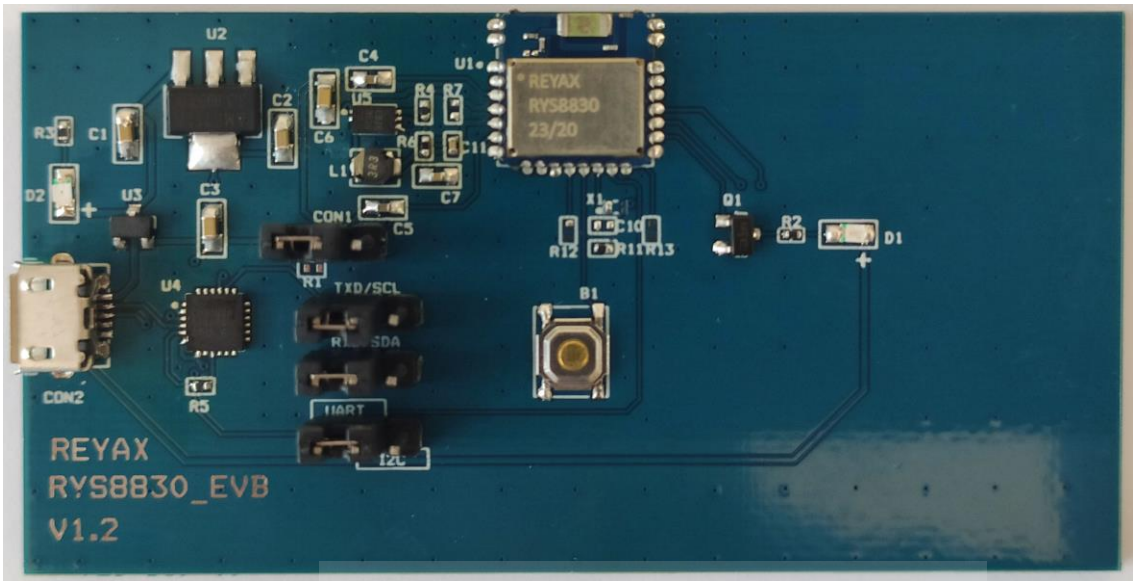
4.) @GPPS 1 // enable 1PPS function

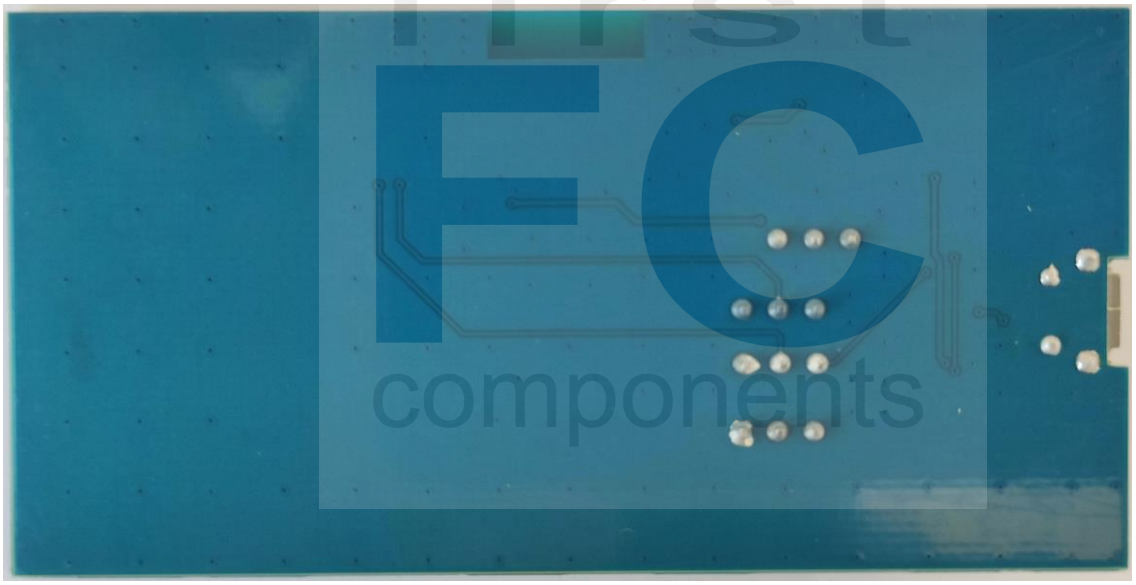
5.) @GSR // hot start

*For detailed command user guide, please refer to RYS8830_RYS8833_Software_Guide

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DIMENSIONS





78mm x 40mm

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