

GEB01 GPS Evaluation Kit

The evaluation kit is an optional accessory while purchasing the module. It will provide an easy way to estimate the performance of our module. The users can also follow the reference circuit design in Chapter 2 to test the performance of the module.

In this chapter, all the information about the evaluation kit, which includes the output ports, buttons, and LED lights, is described. As long as the procedure is correct and complete, the module will output the desired messages at the desired port and activate the desired functions through the desired port. All of those functions can be achieved by using software commands. The settings and commands are described in Chapters 2 and 7.

As shown in Figure 5.1, the appearance of the evaluation kit is depicted. The whole kit should include, in addition to the main box itself,

- a 12 V adapter;
- an active antenna with SMA (male) connector;
- two RS232 cables;

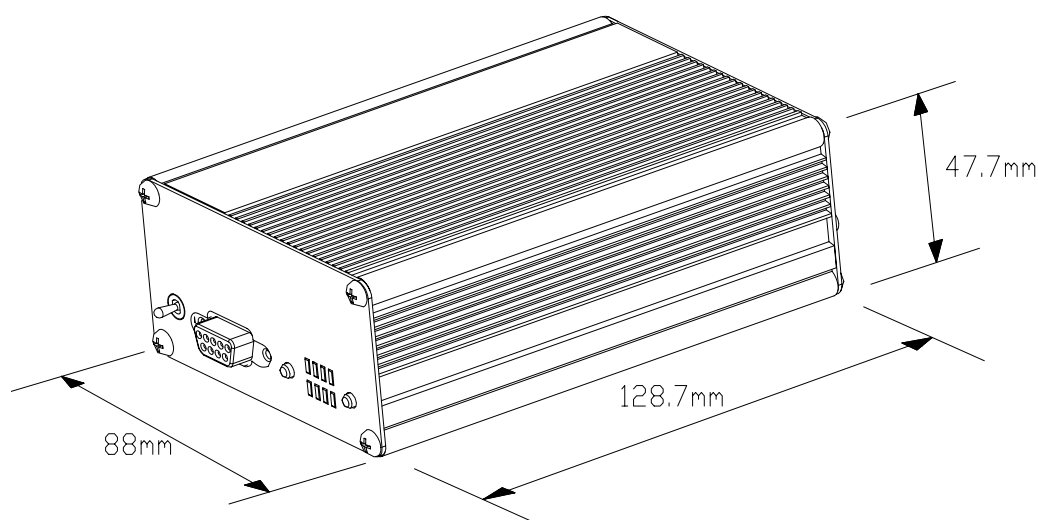


Figure 5.1 Main box of the evaluation kit.

Figure 5.2 shows the front panel of the evaluation kit. It includes (from left to right) Power Switch, Comm. Port 2, Boot button, LED function lights, and Reset button. The default output protocol for Comm. Port 2 is UBX binary messages with baud rate 57600 bps. The Boot button is for read/write purpose to the flash memory. The definitions for LED lights are indicated in the figure. The Reset button can be used to re-start up the GPS module in the either Continuous Tracking Mode or FixNow mode.

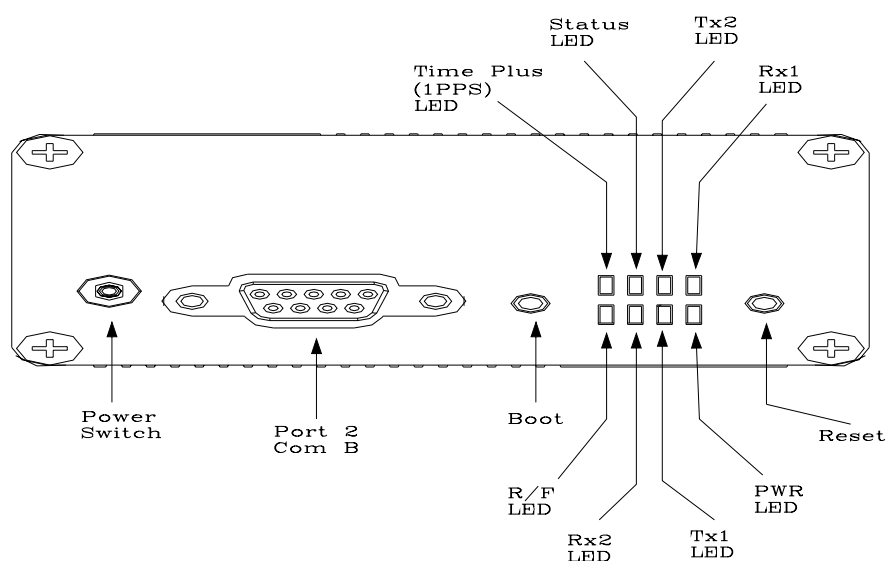


Figure 5.2 Front panel of the evaluation kit.

Figure 5.3 shows the back panel of the evaluation kit. It includes (from left to right) the Antenna Input, Comm. Port 1, 1PPS Output, and Power Input. The Antenna Input is a SMA female connector which is for 3.0 V or 5.0 V active antenna depending on the jump position (J16). The Comm. Port 1 outputs NMEA messages at the baud rate of 19200 bps as the default setting. The 1PPS Output, which is a BNC (female) output port, is used to output a time pulse per second. For the Power Input of the kit, it accepts the input voltage in the range of 8 ~ 40 V.

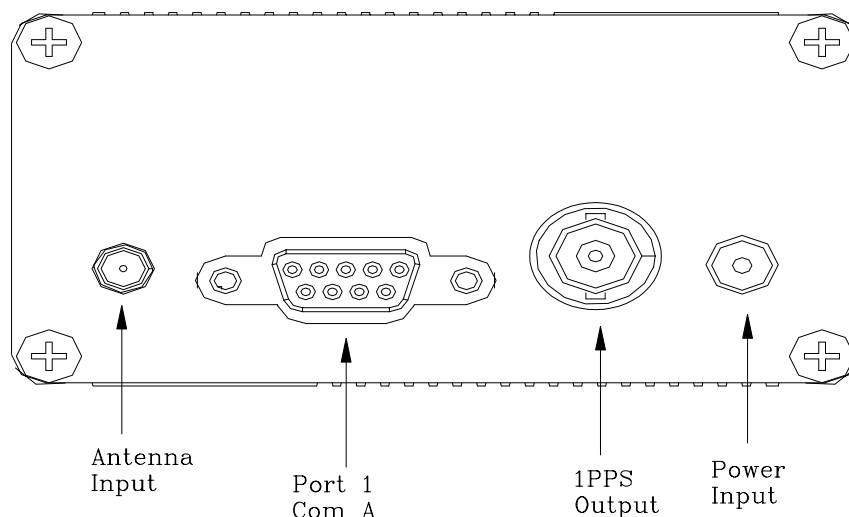


Figure 5.3 Back panel of the evaluation kit.

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Both Comm. ports are the bi-directional ports, i.e., the ports also accepts user software commands. For receiving RTCM message, either port can be used to accept the data through software command.

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