

EVb User Manual

1. EVB 有 2 种供电方式: 3 节 7 号电池及 USB 供电, 图 1 跳线方式为电池供电。

There are two modes of power supply for EVB. One is using 3 AAA battery, and the other is using USB port. The Figure1 is wire jumper as battery power supply.

电池供电: 跳线帽调到 BAT 供电接线端子。

Battery Power Supply: Adjust the jumper to BAT port.

USB 供电: 跳线帽调到 USB 供电接线端子, USB 接口可打印数据。

USB Power Supply: Adjust the jumper to USB port, and the USB port can print data.

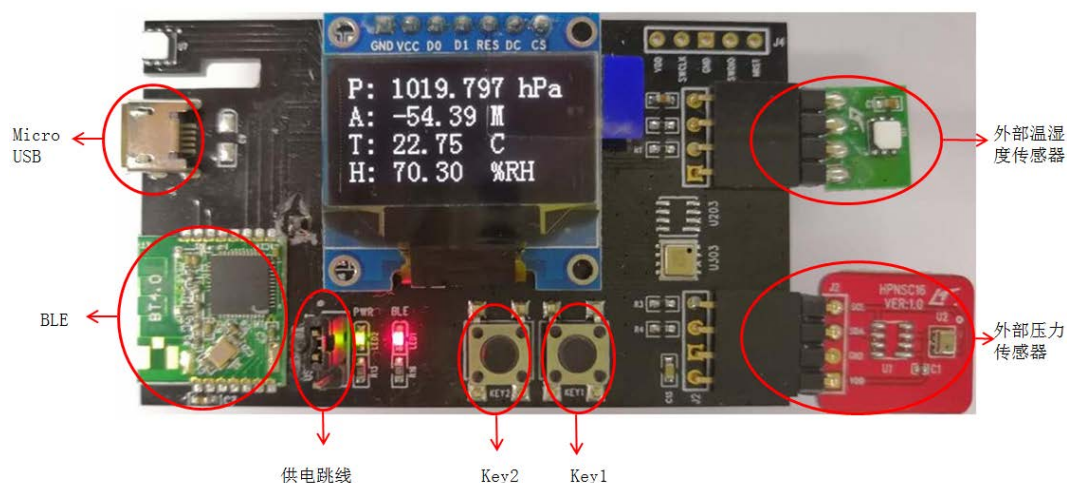


Figure 1

供电跳线: Power Supply Jumper

外部温湿度传感器: External temperature and humidity sensor

外部压力传感器: External pressure sensor

2. 上电后屏幕默认显示的是开发板上自带的压力传感器 HP303B 和温湿度传感器 TH06 的数据

After power on, the data of HP303B and TH06 will be shown on the demo screen as default.

3. 开发板带有外扩传感器接口, 选择外扩传感器型号:

The Demo Board with Extended Sensor Interface, choose the extended sensor model:

- 短按 Key2 键切换至测试外部传感器, 默认外部压力传感器 HP303B、HP303S、HP5806 (这 3 种传感器的 I2C 是一样的), 外部温湿度传感器 TH06。

Switch to test external sensor by pressing Key2. Default external pressure sensor as HP303B, HP303S, HP5806(The I2C of these three sensors is the same), external temperature and humidity sensor as TH06.

如果需要测试外部传感器不属于默认型号, 长按 KEY2 键直到屏幕显示图 2 界面为止。短按 KEY2 选择 pressure type, 短按一次该按键, 压力类型型号就发生变化, 按到想要的型号即可停止。按 KEY1 按键选择 humidity type(默认 TH06), 短按该按键选择温湿度传感器类型。选择完后, 长按按键 KEY2, 直到屏幕再次显示传感器数据为止。

If need to test the external sensor that does not belong to the default one, long press KEY2 until the screen shows the interface of Figure 2.

Short pressing KEY2 to choose pressure type, and after short pressing this key, the pressure type will be changed, stop pressing until find the needed one. Pressing KEY1 to choose humidity type(default as TH06), short pressing the key to choose humidity type. After choosing, long pressing KEY2, until the screen display the sensor data again.



Figure2

4. USB 打印数据截图（打印开发板自带传感器数据为例，需要安装 CP2102 的驱动）。

Screenshot of USB printing data (To print demo default sensor data as an example, need to install CP2102 driver).

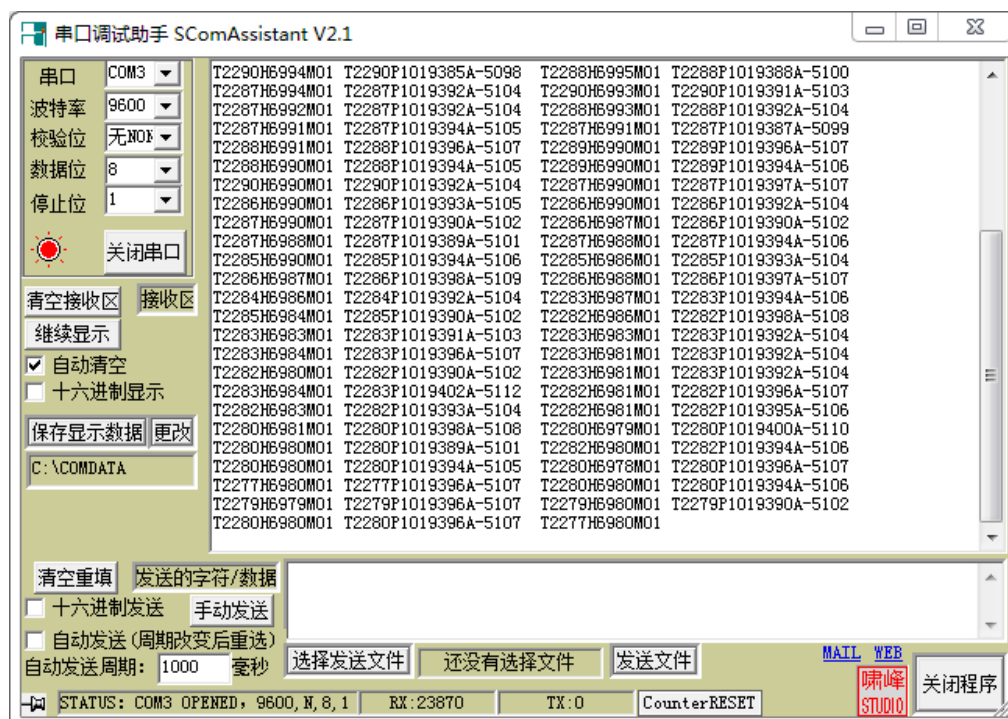


图 3

T2290H6994M01 为温湿度传感器数据:

T2290H6994M01 is temperature and humidity sensor data:

- T2290: 温度为 22.90 ° C

T2290: The temperature is 22.9°C.

- H6994: 湿度为 69.94 %

H6994: The humidity is 69.94%

T2290P1019385A-5098 为压力传感器数据:

T2290P1019385A-5098 is pressure sensor data:

- T2290: 温度为 22.90 ° C

T2290: The temperature is 22.9°C.

- P1019385: 压力为 101938.5Pa

P1019385: The pressure is 101938.5Pa

- A-5098: 绝对海拔高度-50.98 米（绝对海拔高度是以海平面气压为 101325Pa 计算所得），客户可根据需要清零（短按 Key1 键，高度清零）。

A-5098: Absolute altitude is -50.98 meter(absolute altitude is calculated from sea level pressure of 101325Pa), customers can be cleared according to their needs. (short pressing Key1, the altitude will be cleared.)

5. 蓝牙数据传输:

手机端需要安装 APP（SensorEVB_20171212.apk）才可以接收，仅限安卓系统手机。

Bluetooth data transmission:

The mobile need to install an app (SensorEVB_20171212.apk), then the data can be received, and only for Android Mobile Phone.

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