

WandererBox Ultimate V2 Serial Port Protocol 20221218

Baud rate: 19200

Data bits: 8

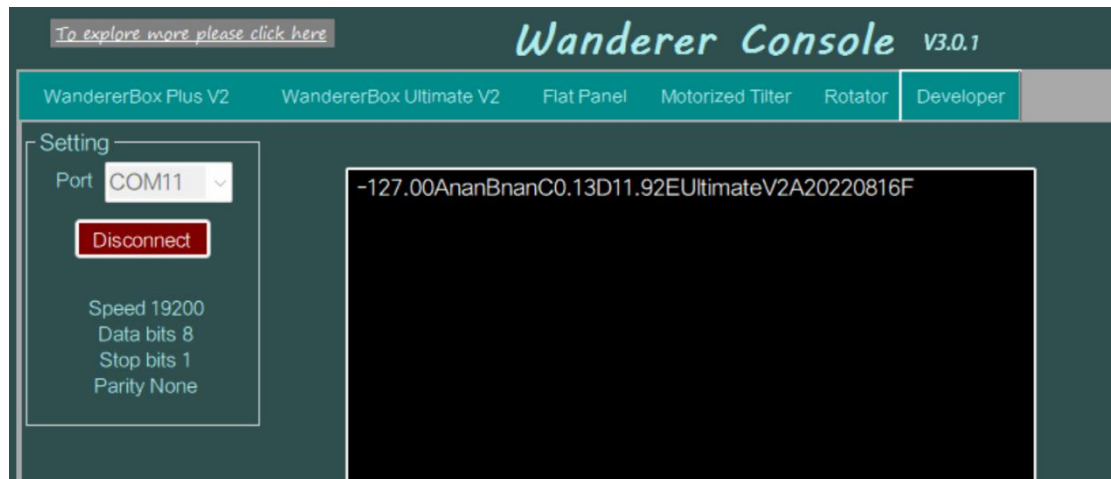
Parity: None

Stop bits: 1

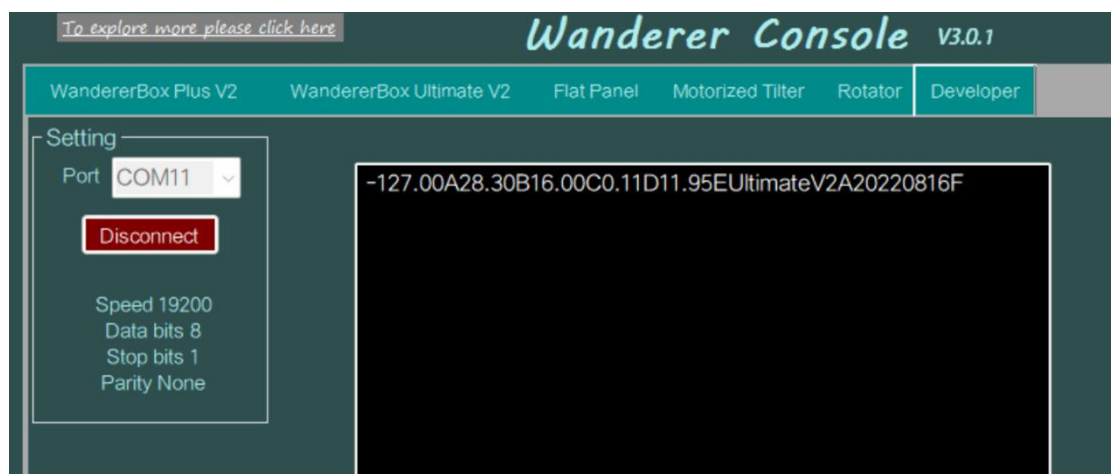
Handshake:

Once the serial port is connected, WandererBox Ultimate V2 will continue to send device model, firmware version, voltage, current, and sensor data information to the computer. The data format is as follows:

Temperature data of DS18B20 temperature probe(-127 if sensor not connected)+A+humidity reading of DHT22 sensor(nan if sensor not connected)+B+temperature reading of DHT22(nan if sensor not connected) sensor+C+current+D+voltage+E+UltimateV2+A+firmware version+F



For example, the above information shows that the DS18B20 temperature probe and the DHT22 temperature and humidity sensor are not connected, the current is 0.13A, the voltage is 11.92V, the model is correct, and the firmware version is 20220816.



The above information shows that DHT22 temperature and humidity sensor is

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connected, the humidity is 28.3% , the temperature is 16.00 degrees , the current is 0.11A, the voltage is 11.95V, the model is correct, and the firmware version is 20220816.

USB control command:

	ON	OFF
USB3.0 PORT 1	311	310
USB3.0 PORT 2	321	320
USB3.0 PORT 3	331	330
USB2.0 PORT 1	211	210
USB2.0 PORT 2	221	220
USB2.0 PORT 3	231	230
USB2.0 PORT 4	241	240
USB2.0 PORT 5	251	250
USB2.0 PORT 6	261	260
When command is transmitted successfully you will receive "doneF"		

For example in C# , if you want to turn on USB3.0 PORT1 :

```
SerialPort.WriteLine("311");
```

DC control command:

	ON	OFF	PWM
DC PORT 1	1255	1000	1000+PWM level (1-254)
DC PORT 2	2255	2000	2000+PWM level (1-254)
DC PORT 3	3255	3000	3000+PWM level (1-254)
DC PORT 4	141	140	/
DC PORT 5-8	151	150	/
When command is transmitted successfully you will receive "doneF"			

Constant temperature control (When DS18B20 temperature probe is connected)

To activate constant temperature control for DC PORT 1 , transmit 411000+desired dew heater temperature;

To activate constant temperature control for DC PORT 2 , transmit 412000+desired dew heater temperature;

To activate constant temperature control for DC PORT 3 , transmit 413000+desired dew heater temperature;

Humidity mode activation(When DHT22 sensor is connected)

To activate humidity-based control for DC PORT 1 , transmit 400001;

To activate humidity-based control for DC PORT 2 , transmit 400002;

To activate humidity-based control for DC PORT 3 , transmit 400003;