

# BPSTool User Guide

V1.0.4

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# History

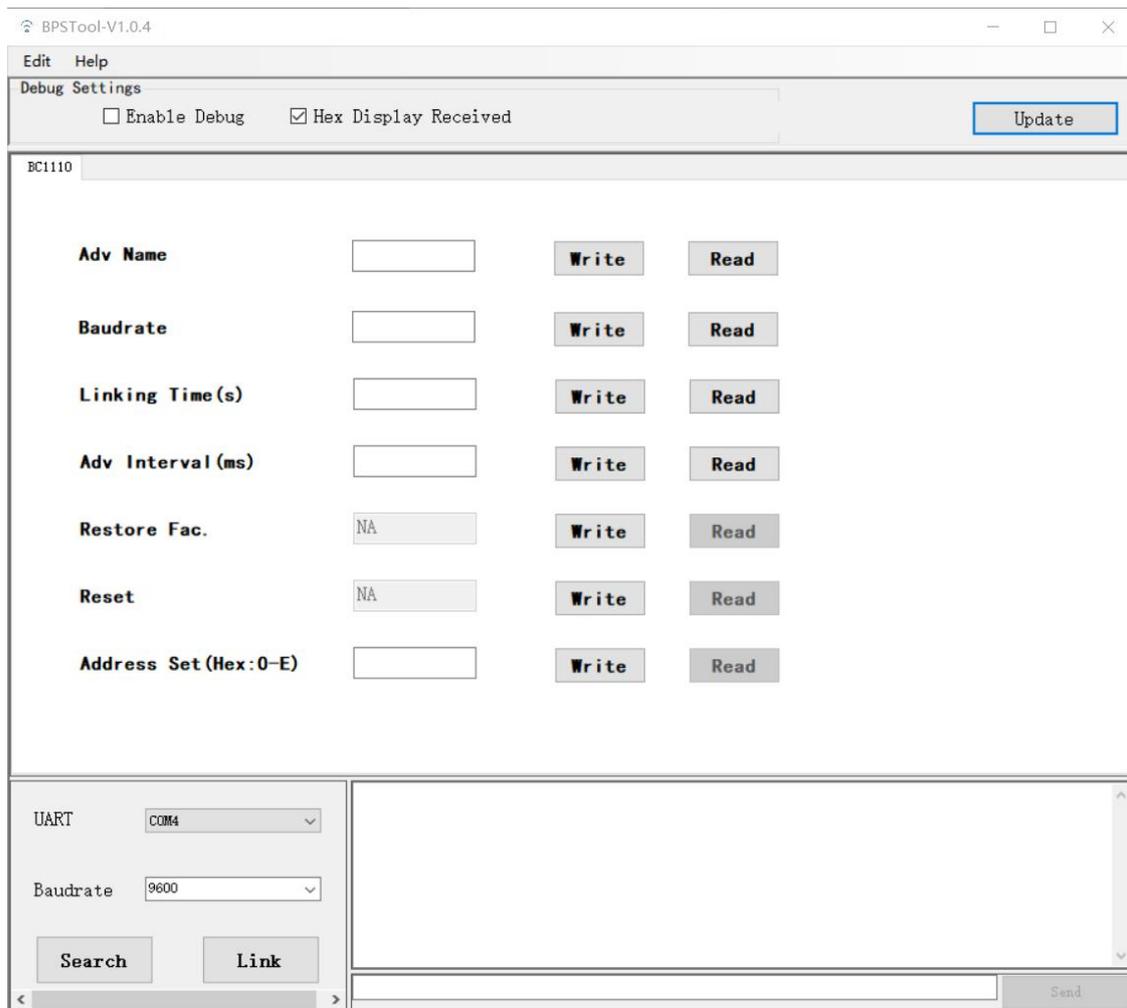
Date	Release Note	Version	Author
2020.06.21	1. Initial version	V1.0	Anserion
2020.07.12	1. Add "Search" function; 2. Add hex debug check box	V1.1	Anserion
2020.10.24	1. Add menu bar 2. Add Chinese and English switch 3. Add address configuration	V1.0.4	Anserion

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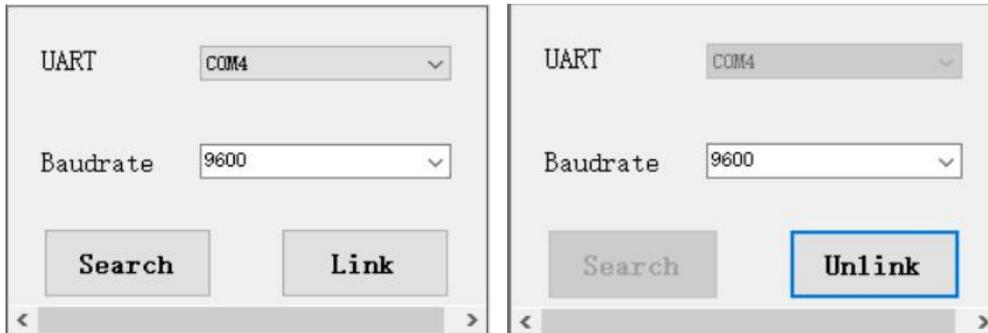
# Abstract

BPSTool is a software tool on Windows platform for debug BPS protocol. It fit for Windows7/8/10. It support the device BC1110 now. This document is to describe BPSTool-V1.0.4. You can refer to the [source code on Github](#) for more info.



# Main Page Functions

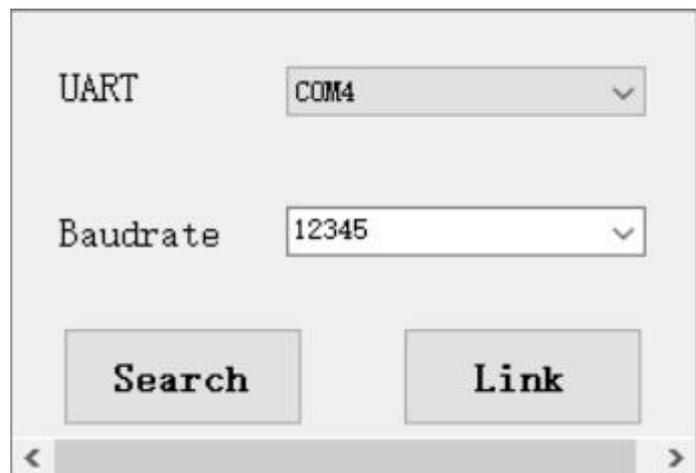
## Link



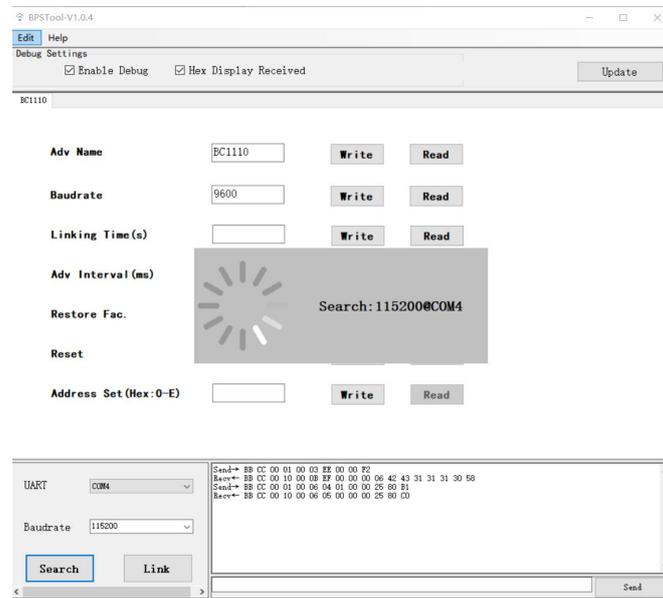
Link the BPS device with the USB to TTL module to your PC, as the figures above showing. Configure your serial PORT and baud rate to start the linkage. The “Linke” will display “Unlink” when linkage established.

The baud rate drop-down box only provides 5 common baud rate options: 9600, 19200, 38400, 57600, 115200.

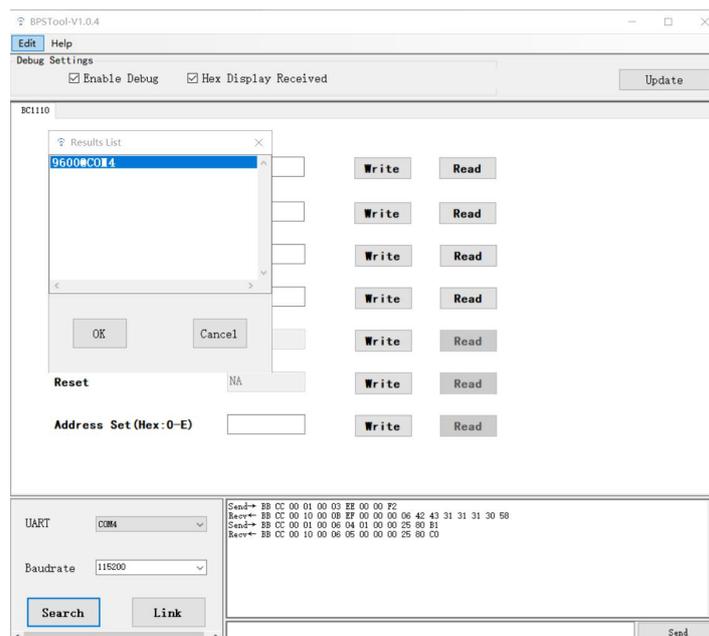
If the device does not support the above baud rate, you can directly enter the custom baud rate ( “12345” in the figure below).



# Search



Refer to the description of the device (BC1110, etc.), configure the device to "BPS mode" (also known as "configuration mode") and connect it to the computer via a USB to TTL module. After clicking "Search" as shown in the figure above, BPSTool will try to connect to all serial ports Send the BPS test command at the common baud rate (9600, 19200, 38400, 57600, 115200). If the serial port response is received, the device is considered to be found.



As shown in the figure above, it means that a device with a baud rate of 9600 under

COM4 has been found. Click "OK" to start the connection.

If the device uses an unusual baud rate (such as "12345"), it cannot be searched by this method.

## Configuration Write/Read

The screenshot shows the BPSTool-V1.0.4 application window. At the top, there are menu options for 'Edit' and 'Help'. Below that is a 'Debug Settings' section with two checked options: 'Enable Debug' and 'Hex Display Received', and an 'Update' button. The main area is titled 'BC1110' and contains a table of configuration parameters:

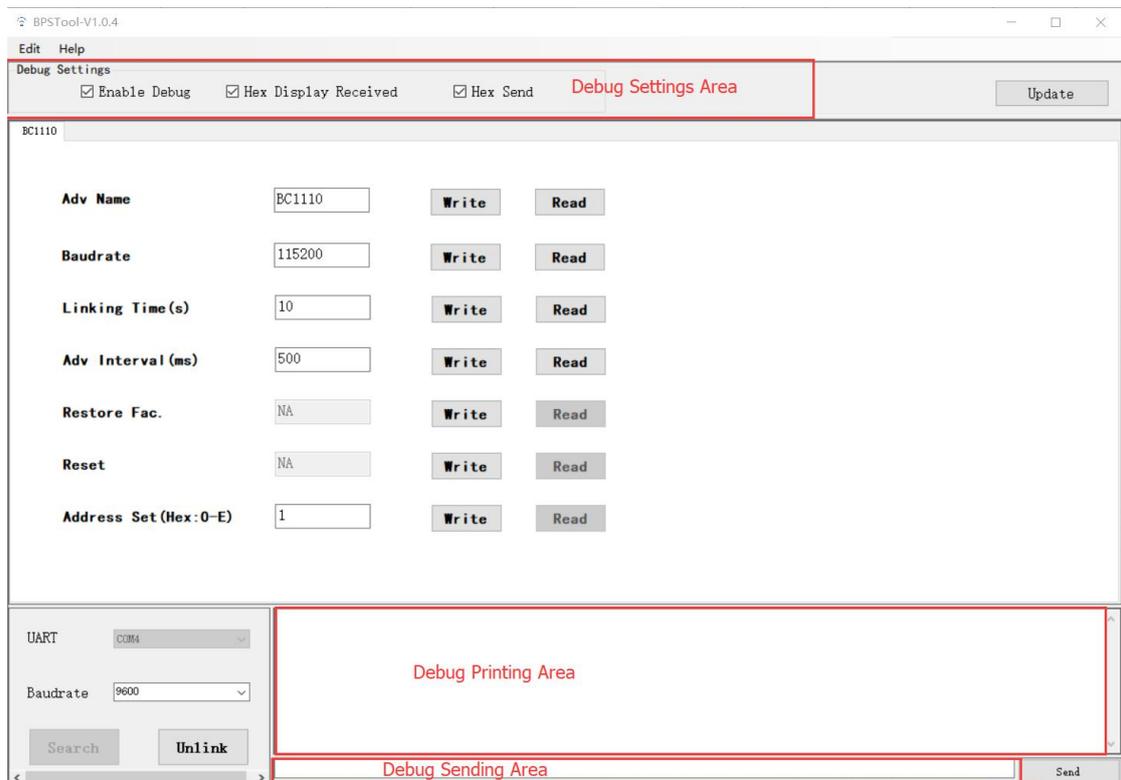
Parameter	Value	Write	Read
Adv Name	BC1110	Write	Read
Baudrate	115200	Write	Read
Linking Time (s)	10	Write	Read
Adv Interval (ms)	500	Write	Read
Restore Fac.	NA	Write	Read
Reset	NA	Write	Read
Address Set (Hex:0-E)	1	Write	Read

At the bottom left, there is a 'UART' dropdown menu set to 'COM4' and a 'Baudrate' dropdown menu set to '9600'. Below these are 'Search' and 'Unlink' buttons. At the bottom right, there is a 'Send' button. The main area also features a large empty text box for displaying data.

After the connection is successful, click "Read" to get device-related configuration values, and click "Write" to write device-related configuration values.

**Note:** After the "Adv Interval (ms)" is set successfully, only restart the device to take effect.

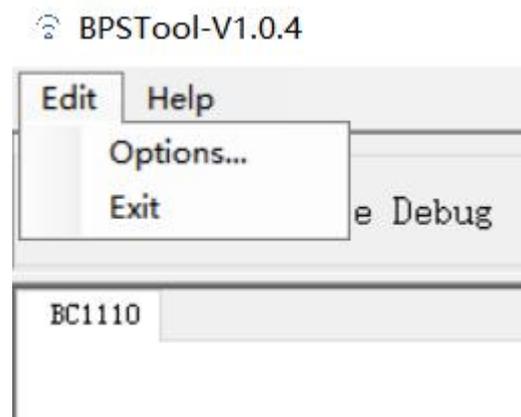
# Debug Settings



As shown in the figure, when the debug enable button "Enable Debug" is checked, the Debug Printing Area will display the sent and received data. By checking "Hex display received" and "Hex send", you can switch between displaying or sending in hexadecimal format. The user can also edit the custom data in the Debug Sending Area, and then click the "send" button to send the data to the serial port.

# Menu Bar Functions

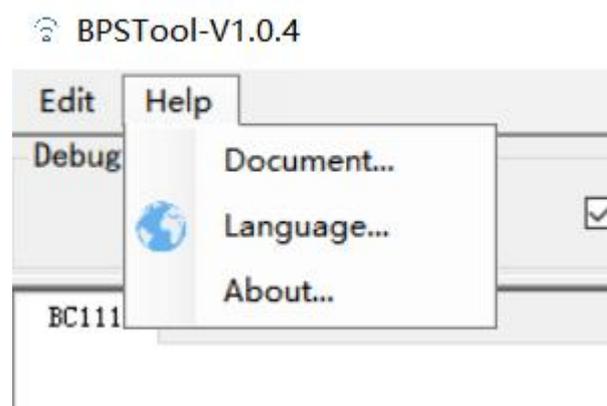
## Edit



“Options...” Configure BPSTool related parameters, including BPS master address, slave address, etc.

“Exit” Close BPSTool.

## Help



“Document...” Consult the BPSTool online documentation.

“Language...” Set the language of BPSTool.

“About...” Display BPSTool related information.

# Other

BeecomIoT Web:

<https://www.beeecom.online/en/home-2/>

BPSTOOL Download:

<https://www.beeecom.online/en/support-2/bpstool/>

BPSTool Source Code:

<https://github.com/beecomiot/BPSTool>