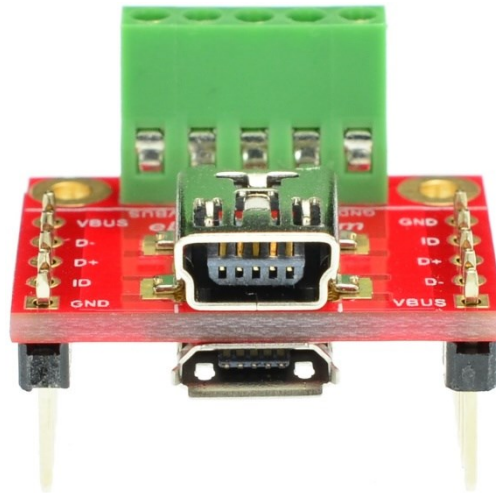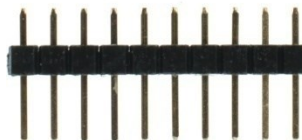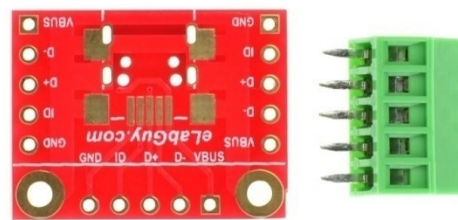# USBmu-BF-BO-V1A

1. Description:

USBmu-BF-BO-V1A is a simple Mini+MicroUSB2.0 Type B female socket breakout board. It brings all 5 pins of a Mini and Micro USB2.0 Type B connector to screw terminal blocks and headers for easy testing, prototyping and breadboard connection. For breadboard connections, user can use the 5pin header on the bottom for a sideways connection. User can also use the two 5pin headers on both sides of the breakout board to connect to the front end of the breadboard for a steady connection.

2. Features:

- All 5 pins of Mini and Micro USB2.0 Type B female socket brought out to headers and screw terminal blocks
- Various connecting method chosen by users.
- 0.9"(22.86mm)X0.7"(17.78mm)board dimensions

3. Parts:

1) *1pc* X **USBmu-BF-BO-V1A PCB**
2) *1pc* X **Mini USB Type B Female Socket**
3) *1pc* X **Micro USB Type B Female Socket**
4) *1pc* X **5pin0.1"(2.54mm) spacing terminal block**
5) *1pc* X **10pin0.1"(2.54mm) header**

Figure 1: Parts inside the kit
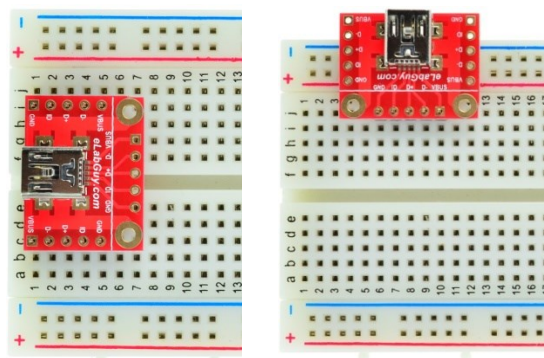(Note: the module is not assembled, user can decide which connector to use on the module.)

Figure 2: Example of connecting the USBmu-BF-BO-V1A *on a breadboard*

Figure 3: USBmu-BF-BO-V1A *various connections*

Figure 4: Optional Jumper connects Shield to GND

Related products from eLabGuy:

USBu-BM-BO-V2A

USBM-Bm-BO-V1A