

# USB-mBM-AF-V1A

## 1. Description:

USB-mBM-AF-V1A is a simple mini USB2.0 Type B Male to USB2.0 Type A Female pass-through adapter breakout board. It brings all 5 pins of a mini USB2.0 Type B Male and a USB2.0 Type A Female connector to screw terminal blocks and headers for easy testing, prototyping and breadboard connection. All 5 pins of the mini Male connector directly connect to the Female connector. There is an open circuit between the two VCC pins where you can use a jumper to short it or use the two pins in series to measure DC current. User can also use the two 5 pins headers on both sides of the breakout board to connect to breadboard or prototype PCB.

## 2. Features:

- All 5 pins of a mini USB2.0 Type B Male and a USB2.0 Type A Female connector brought out to headers and screw terminal blocks
- All 5 pins of a mini USB2.0 Type B Male connector directly connect to a USB2.0 Type A Female connector.
- Open circuit between VCC pins for measuring current.
- Various connecting method chosen by users.
- 1.0"(25.4mm)X0.7"(17.78mm) board dimensions

## 3. Parts:

- 1) 1pc X USB-mBM-AF-V1A PCB
- 2) 1pc X mini USB2.0 Type B Male Connector
- 3) 1pc X USB2.0 Type A Female Connector
- 4) 1pc X 5pin 0.1"(2.54mm) spacing terminal block
- 5) 1pc X 12pin 0.1"(2.54mm) header
- 6) 1pc X 0.1"(2.54mm) spacing jumper

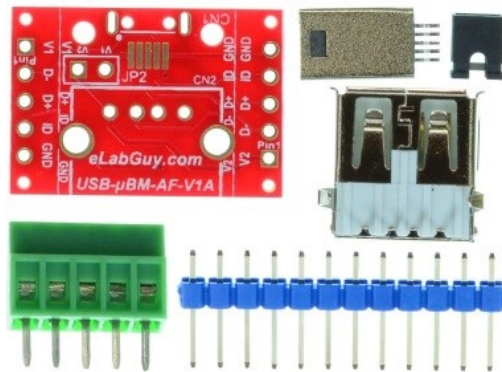
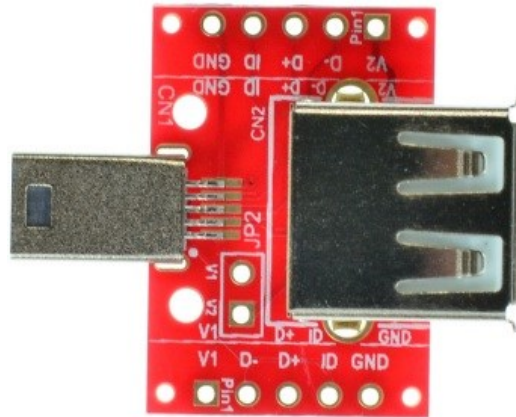


Figure 1: Parts inside the kit  
(Note: the module is not assembled, user can decide which connector to use on the module.)

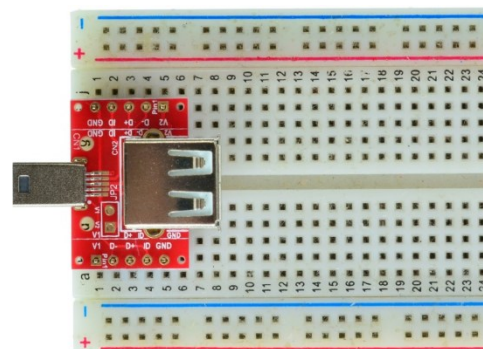


Figure 2: Example of connecting the USB-mBM-AF-V1A on a breadboard (Note: This picture only shows the pins spacing, actual use may not be used on a breadboard)

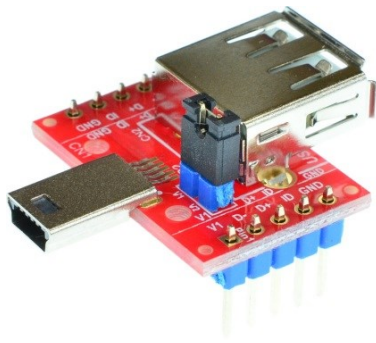


Figure 3: USB-mBM-AF-V1A with headers

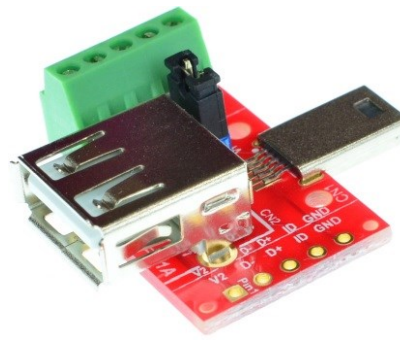


Figure 4: USB-mBM-AF-V1A with terminal blocks

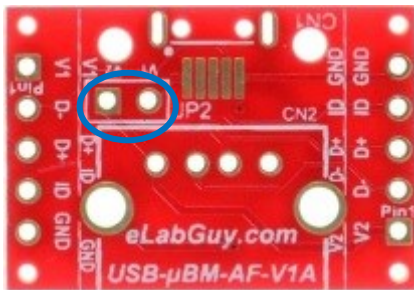


Figure 5: PCB front with open circuit on VCC pin in series



Figure 6: PCB back with optional Jumper connects Shield to GND

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