

# USB3-AF-BF-V1A

## 1. Description:

USB3-AF-BF-V1A is a simple USB3.0 Type A Female to USB3.0 Type B Female pass-through adapter breakout board. It brings all 10 pins of a USB3.0 Type A Female and a USB3.0 Type B Female connector to screw terminal blocks and headers for easy testing, prototyping and breadboard connection. All 10 pins of the 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 10 pins of a USB3.0 Type A Female and a USB3.0 Type B Female connector brought out to headers and screw terminal blocks
- All 10pins of a USB3.0 Type A Female connector directly connect to a USB3.0 Type B Female connector.
- Open circuit between VCC pins for measuring current.
- Various connecting method chosen by users.
- 1.0"(25.4mm)X1.0"(25.4mm) board dimensions

## 3. Parts:

- 1) 1pc X USB3-AF-BF-V1A PCB
- 2) 1pc X USB3.0 Type A Female Connector
- 3) 1pc X USB3.0 Type B Female Connector
- 4) 2pc 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

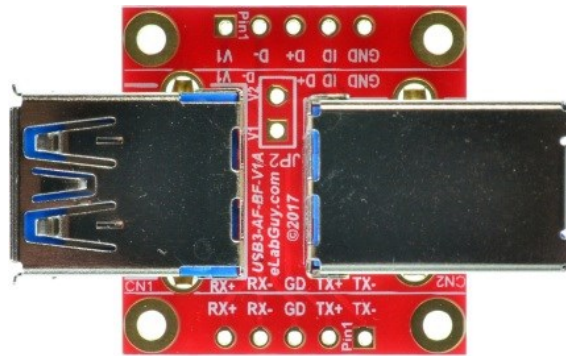


Figure 1: Parts inside the kit  
(Note: the module is not assembled, user can decide which connector to use on the module.)

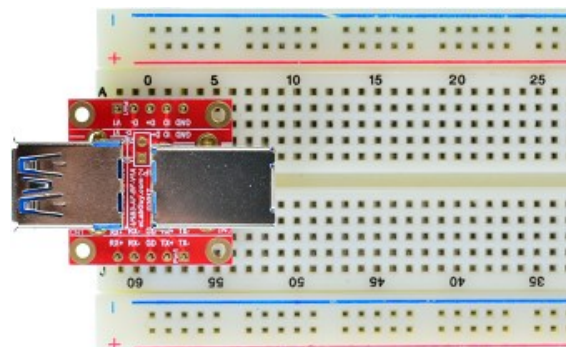


Figure 2: Example of connecting the USB3-AF-BF-V1A on a breadboard (Note: This picture only shows the pins spacing, actual use may not be used on a breadboard)



Figure 3: USB3-AF-BF-V1A with headers



Figure 4: USB3-AF-BF-V1A with terminal blocks



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

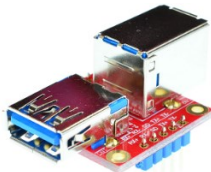


Figure 6: PCB back with optional Jumper connects Shield to GND

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