

Micro USB-B Breakout Module (Host)

CHIP: *Amphenol_10118193***SIZE:** *15.51mm x 17.5mm*

Description:

This Micro USB-B Breakout Module features pin headers for VDD, GND, and the differential data pairs. The module is configured as a host/power source. The module features an AP2171W power switch for USB VBUS. The module features comprehensive ESD protections, including diodes on VBUS and data pairs, along with decoupling capacitors & the power switch. This module takes out the tedious, unpredictable troubles that come from USBs, and will let you streamline and debug your inventions & innovations.

PINOUT:

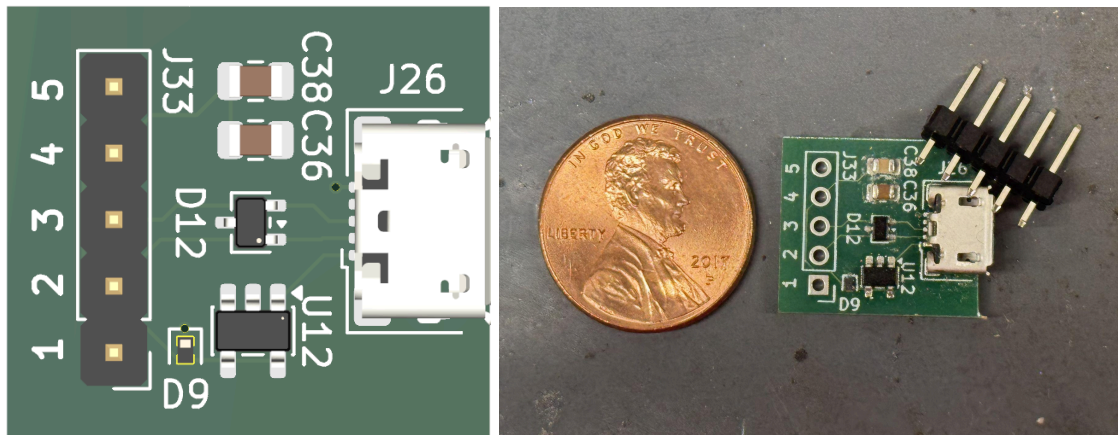
PIN	NAME	DOES THIS
1	GND	Ground
2	D-	Negative Data Pair
3	D+	Positive Data Pair
4	VDD	+5v
5	GND	Ground

Applications:

- Debugging & Code uploading for microcontrollers
 - Power supply for low current applications
 - Data Transmission between hosts & slaves
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CHIPS ON BOARD:

COMPONENT	PART #	JOB	DATASHEET
Micro USB-B	10118193	USB-B Connector	[link]
Power Switch	AP2171W	ESD & Power Management	[Link]

PHOTOS:**Notes & Debugging:**

- This board is hard wired to be a Host. We do not recommend trying to change this board to be a slave, as it would require disconnecting EN from the power switch & breaking out ID.
- This module's ESD protections do not ensure a board's safety. They act as 1 very valuable layer of protection, however proper handling, design & care are also vital.
- The USB's maximum capacitance is 10uF, which is already met on this module. If you need to exceed the capacitance by a meaningful amount, removing the 10uF capacitor is recommended.