

Micro USB-B Breakout Module

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 features an AP2171W power switch for USB VBUS. The module features comprehensive ESD and current protections, including diodes on VBUS and data pairs, along with decoupling capacitors & the power switch. This USB-B is configured as a Host, which means your board provides the USB-B female port with power, to supply external peripherals.

This module takes out the tedious, unpredictable troubles that come from USBs, and will let you streamline and debug your inventions & innovations.

Perfect for powering low current applications, uploading code to MCUs and DSPs (given USB compatibility & proper bootloader configuration), transfer of data between boards, and of course: education.

Happy building!

Pinout:

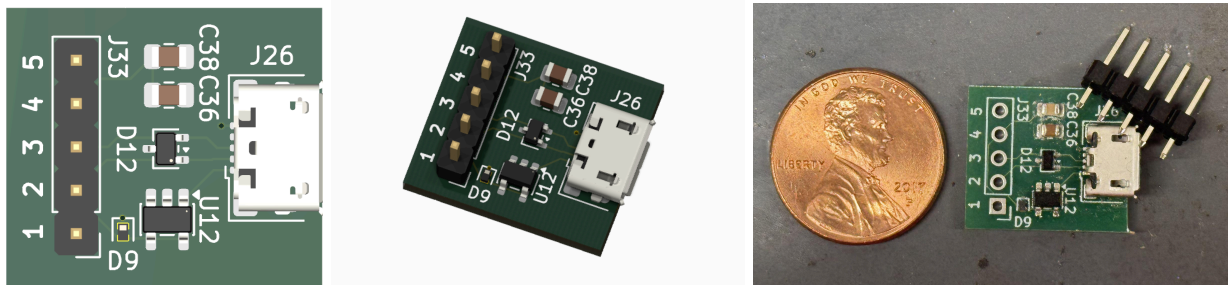
PIN	NAME	DOES THIS
1	GND	Ground
2	D-	Negative Data Pair
3	D+	Positive Data Pair
4	VDD	+5v
5	GND	Ground

Applications:

- Debugging & Code uploading for microcontrollers
- Power supply for low current applications
- Data Transmission between boards & systems
- Data logging and aggregation

Chips on board:

COMPONENT	PART #	JOB	DATASHEET
Micro USB-B	10118193	USB-B Female Port	[Manufacturers Datasheet]
Power Switch	AP2171W	Overcurrent & Power Management	[Manufacturers Datasheet]
Diode	SP0502BAJT	ESD Protection	[Manufacturers Datasheet]

Photos:**Notes & Debugging:**

- 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 differential data pairs are relatively sensitive, on breadboards and protoboards, lower speeds are highly popular & widely standard

Feel free to send any questions to sales@meridianelectronic.com

Check MeridianElectronic.com for datasheets, 3D printing, solder stencils & more!