

USB-C Breakout Module

CHIP: *USB4110-GF-A***SIZE:** *21mm x 17mm*

DESCRIPTION:

This USB-C Breakout Module features pin headers for VDD, GND, and the differential data pairs. The module is hard wired with 5.1k CC resistors, configuring it as a 5v sink (This module receives 5v, it's used to power your board). The module features comprehensive ESD & current protections, including diodes on VBUS and data pairs, a polyfuse and a 10uF capacitor.

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

This USB-C module is perfect for low power supply & applications, programming of MCUs & DSPs, data fetching and logging, and most importantly: education!

Happy building!

PINOUT:

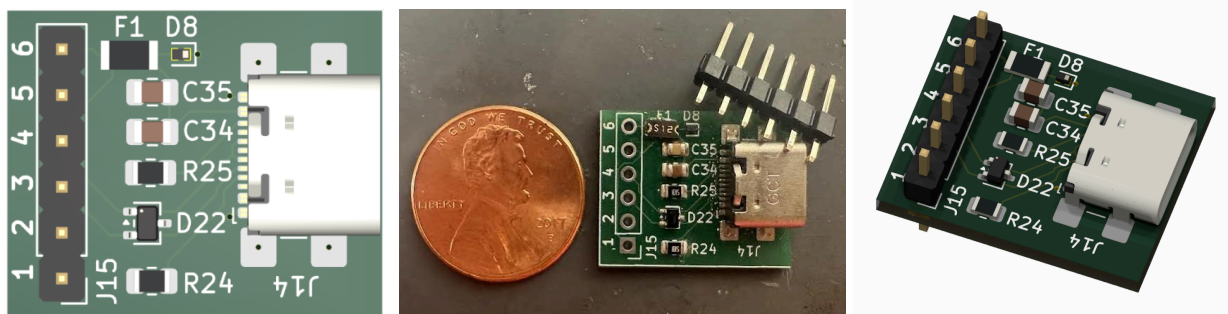
PIN	NAME	DOES THIS
1	VDD	+5V
2	GND	Ground
3	D-	Negative Data Pair
4	D+	Positive Data Pair
5	GND	Ground
6	VDD	+5v

APPLICATIONS:

- Debugging & Code uploading for MCUs and DSPs
 - Power supply for low current applications & systems
 - Data Transmission between boards & hosts
 - Data fetching & logging
-

CHIPS ON BOARD:

COMPONENT	PART #	JOB	DATASHEET
USB-C	USB4110-GF	USB-C Connector	[Manufacturer Datasheet]
Diode	SP0502BAJT	ESD Protection	[Manufacturers Datasheet]
Diode	PESD5V0L1UL	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!