MyMakerTools™

Maker Power™

USB Power 3LDO

Features

USB Power Input
Rugged USB Mini connector
4 Voltages Out – 3 Fixed & VUSB

- VUSB
- 3.3 VDC
- 2.5 VDC
- 1.8VDC

Internal Current/Thermal Limit
Output Current up to 600mA each[1]
Flexible Connection Scheme

Applications

Maker Applications
Circuit Prototyping
Power Isolation
Field testing
Remote Area Power

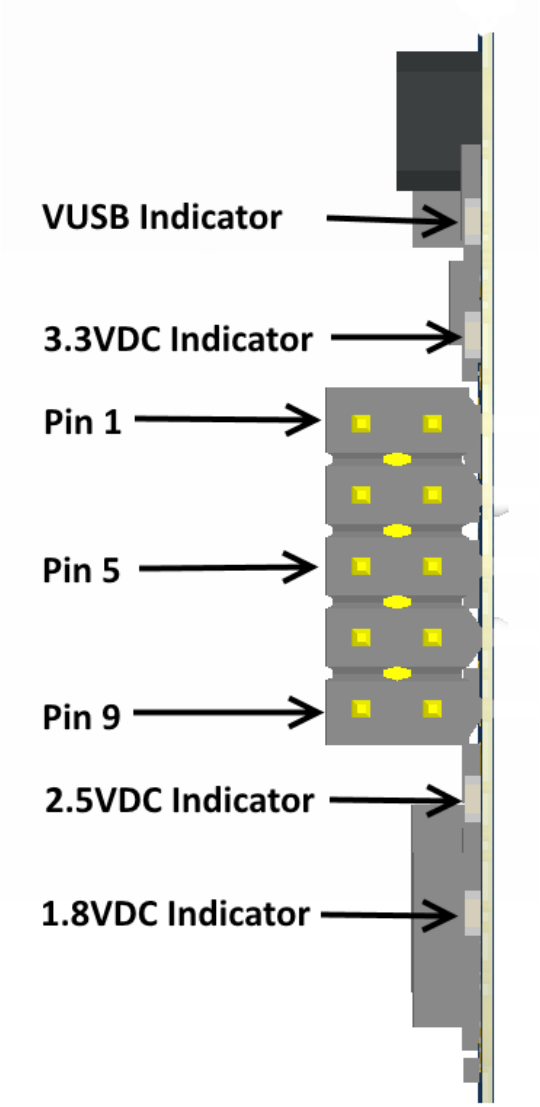
Description

The USB Power 3LDO is a small power module that accepts USB power and provides four voltages. Three of these voltages are fixed and regulated outputs, 3.3VDC, 2.5VDC and 1.8VDC. The fourth voltage is a filtered version of VUSB provided by the USB power supply. The module provides a small and convenient package that is the same form factor as other **Maker Power™** USB power modules. The module provides flexible connections. It will plug into a standard solderless breadboard, IDC 10 pin socket or a standard 10 pin ribbon cable.

Electrical Characteristics

Parameter	Min	Max	Unit
Input Voltage	4.4	5.2	VDC
3.3 VDC Output @ 600mA	3.15	3.45	VDC
2.5 VDC Output @ 600mA	2.4	2.6	VDC
1.8 VDC Output @ 600mA	1.72	1.88	VDC
VUSB[2]	N/A	N/A	
Quiescent Current		30	mA
Line Regulation[3]		50	mV
Load Regulation[3]		50	mV
Stability (Temperature/Long term)[3]		0.75	%

Note 1. Total current out is dependent on the USB Power supply. Total current out cannot exceed current capability of the USB power supply. Typically the maximum total current is 2.1A.
Note 2. VUSB output characteristics are a function of the USB power source and thus are not specified here.
Note 3. These characteristics only apply to 3.3VDC, 2.5VDC and 1.8VDC outputs.



Pin	Function
1	VUSB
2	VUSB
3	3.3VDC
4	3.3VDC
5	GND
6	GND
7	2.5VDC
8	2.5VDC
9	1.8VDC
10	1.8VDC

Note

All specifications listed here were tested under ideal conditions, i.e. short load connections, well behaved circuits, stable USB power inputs, etc. This is ***not*** a laboratory grade product and is intended as a small and portable power supply for individuals testing and running small portable systems away from conventional power supplies. Your results will vary.