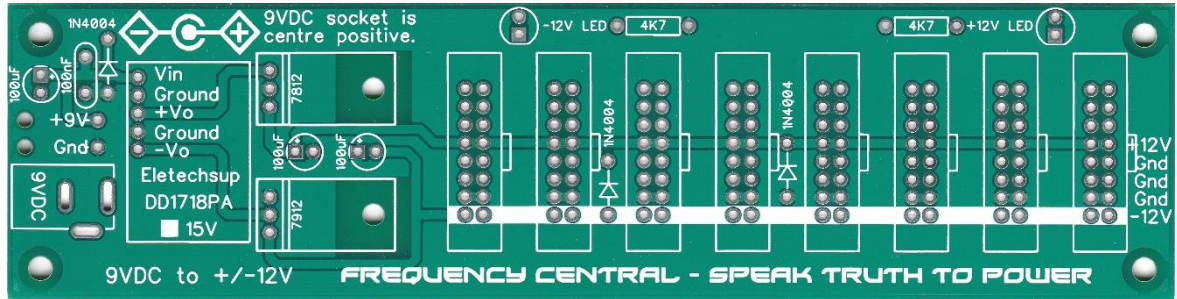


FREQUENCY CENTRAL

Build documentation for:

SPEAK TRUTH TO POWER

Eurorack power and bus solution for 12V DC wallwart



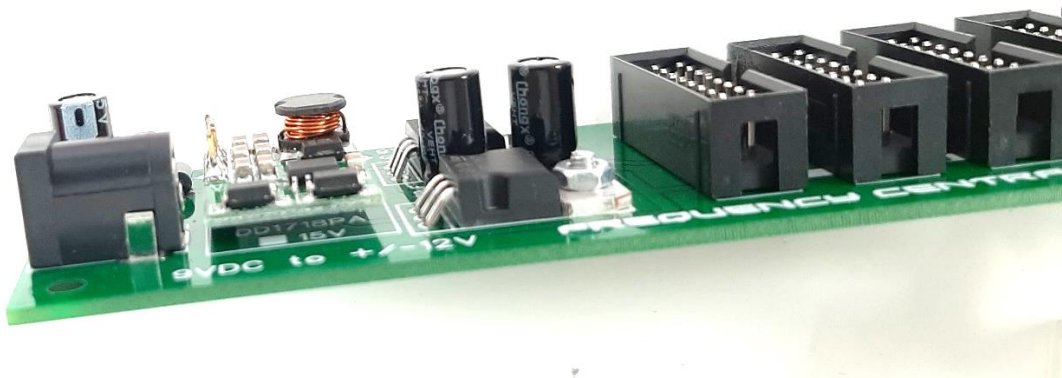
Speak Truth To Power is a Eurorack power and bus solution which runs from a 9V DC centre positive wallwart. Please note that attempting to run **Speak Truth To Power** from an AC wallwart or a DC centre negative (Boss type) wallwart may damage **your Speak Truth To Power**. Please check for a DC centre positive symbol on your wallwart:



Speak Truth To Power is based around the [Eletechsup DD1718pa](#) DC to DC converter. This converter will supply +12V at 600mA and -12V at 200mA. Although 9V is recommended, it will run on 6V or 12V too. It's not fussy, but prefers one of those lightweight wallwarts that you might have saved when you threw away your old WIFI router.

Speak Truth To Power features 8 x 16 way Eurorack power headers and status LEDs for both +12V and -12V outputs.

Speak Truth To Power features a standard barrel type power socket. In addition there are solder pads (and strain relief holes) should you wish to wire to an offboard power socket.



Bill of Materials

<u>1/4 watt metal film:</u> 4K7 x 2	<u>100nF x 1</u> <u>100uF electrolytic x 3</u>	<u>Eletechsup DD178pa</u> <u>1N4004 x 3</u> <u>7812 x 1</u> <u>7912 x 1</u> <u>3mm red LED x 2</u>	<u>Power input socket</u> <u>16 way power header</u> <u>x 8</u> <u>Male header</u> <u>(cut to size)</u> <u>3mm nuts x 2</u> <u>M3 bolt x 2</u>
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Construction

1. Place and solder 2 x resistors and 3 x diodes – observe correct polarity for diodes
2. Place and solder 7812 and 7912, bend over so holes in regulators match holes in PCB
3. Place and solder 2 x LEDs (short leg = square pad)
4. Cut a piece of male header and solder to Eletechsup DD1718pa, place onto PCB and solder into place
5. Place and solder 100uF capacitor
6. Place and solder power input socket
7. Place and solder 3 x 100uF electrolytic capacitors – observe correct polarity
8. Bolt regulators to PCB using M3 bolts and nuts



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