

Synthrotek Power PAK Visual Bill of Materials

Resistors

100Ω - R4, R5



68kΩ - R3



160kΩ - R1



220kΩ - R2



Total=5

Diodes

3mm Clear Blue LED - LED1, LED2, LED3



SB540 - D1, D2



Total=5

Jacks

Vertical Mount USB Jack Type 'A' - J3, J4



16 Pin Shrouded Header - J1, J2

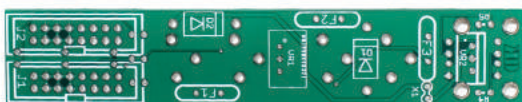


2.1mm Vertical Mount DC Jack - 9_CN, 9_CP, 12_CN, 12_CP



Total=8

PCB / Panel Set



Fuses

1A Resettable Fuse - F1, F2



1.35A Resettable Fuse - F3



Total=3

Voltage Regulators

9V Regulator - VR1



5V Regulator - VR2 (optional)



Total=2

Other

2x1 Male Header - X1



2x1 Jumper - X1 (optional)



2.5x6mm Rack Screws



3.0x6mm Rack Screws



16 Pin Eurorack Power Cables



DC Power Cables



Total=10

SYNTHROTEK POWER PAK QUICK START GUIDE

**IMPORTANT! PLEASE READ CAREFULLY BEFORE USING!
USING THIS MODULE IMPROPERLY CAN DAMAGE IT OR
DEVICES CONNECTED TO MODULE!**

This module outputs DC voltage only. All devices that connect to this unit are polarized. Make sure that you look at your device/product manual before connecting to POWER PAK. Synthrotek will not be responsible for any damage resulting from improper use!

Onboard +5V power regulator

Add jumper to use +5V regulator. DO NOT add jumper if you already have +5V in your system

9V power regulator

One resettable fuse per rail. Fuse will trip if too much current is drawn.

(+5V fuse is bypassed when jumper is off)

2X 16-Pin Shrouded Power Connectors. USE BOTH at the same time to ensure module can draw full power safely.



2X +5V USB Power Jacks
1A max current draw combined for both (not individual)
(when using Power Pak's +5V regulator)

2.1x5.5 +12VDC CENTER POSITIVE Power Jack

2.1x5.5 +12VDC CENTER NEGATIVE Power Jack

2.1x5.5 +9VDC CENTER POSITIVE Power Jack

2.1x5.5 +9VDC CENTER NEGATIVE Power Jack

Power indicator lights per rail. If light turns off you are likely drawing too much current.

1A maximum current limit for both (combined) +5V USB jacks when using onboard +5V regulator. Adding the jumper will power the two USB jacks AND send +5V to Eurorack modules connected on the same bus board or flying bus cable. The USB jacks will still work if you do not add the jumper as they will use the +5V from your main power supply.

**750mA maximum current limit per +12V rail combined for both jacks.
750mA maximum current limit per +9V rail combined for both jacks.**



classic noise.