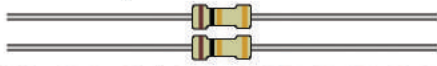
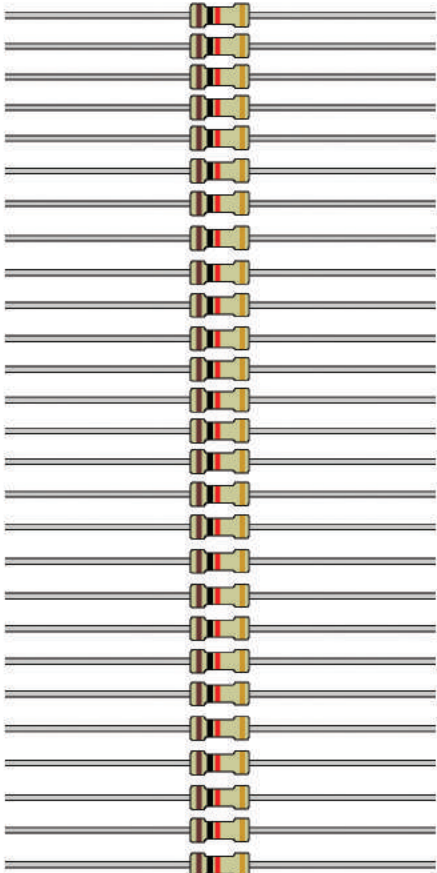


Resistors

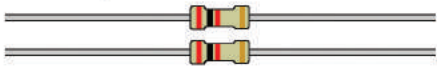
1Ω - R59, R100



1K - R2, R4, R8, R21, R22, R26, R29, R38, R39, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R101, R102



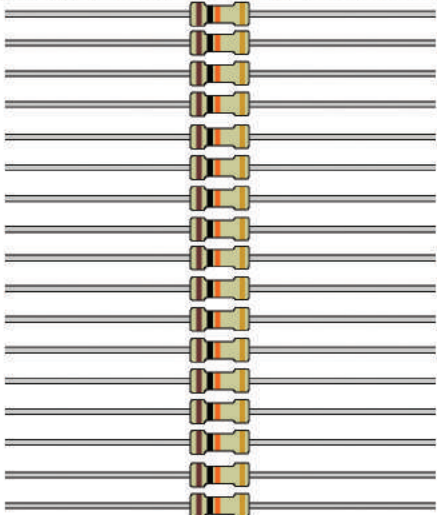
2K - R1, R41



4.7K - R11



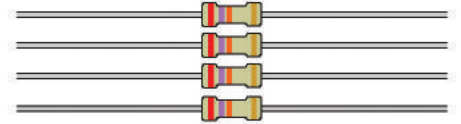
10K - R5, R6, R7, R9, R10, R12, R14, R15, R23, R24, R25, R28, R34, R35, R36, R37, R42



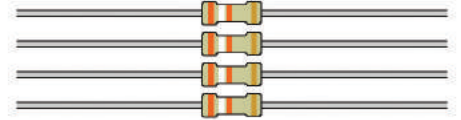
20K - R13



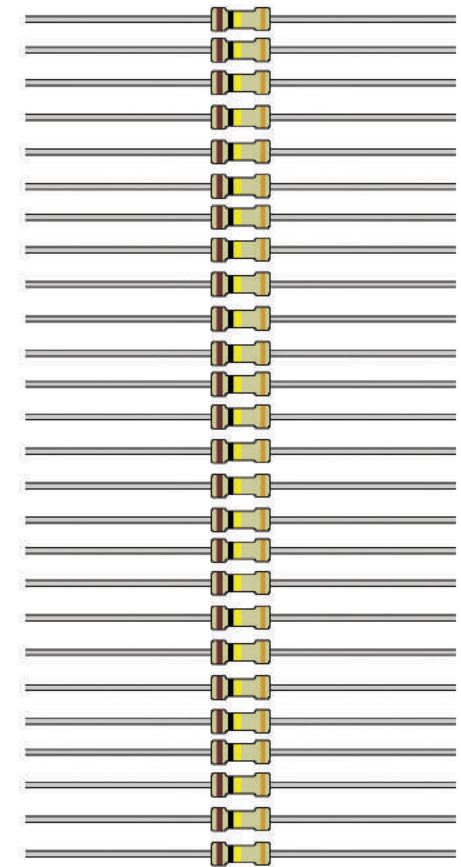
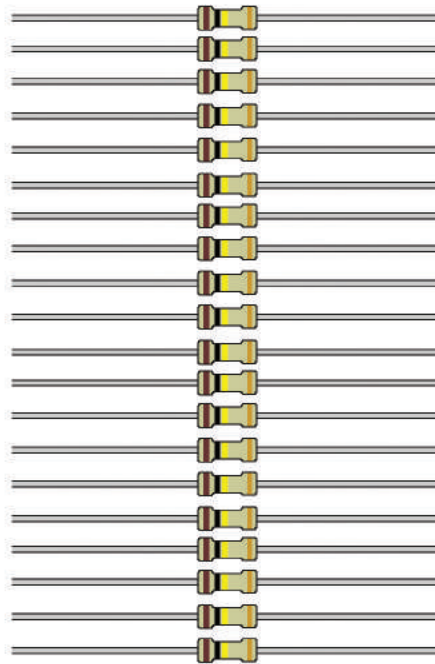
27K - R18, R19, R30, R32



39K - R17, R20, R31, R33



100K - R3, R13\*, R14\*, R16, R27, R40, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99



TOTAL: 104

\* denotes component is on the control board

**DIODES**

BAT85 - D1, D2, D3, D4, D5, D6, D7, D8, D9, D10,  
D11, D12, D13, D14, D15, D16, D17, D18, D19, D20,  
D21, D22, D23, D24, D25, D26, D27, D28, D29, D30



3mm Red LED - LED1



3mm True Green LED - LED2



3mm Blue LED - LED3



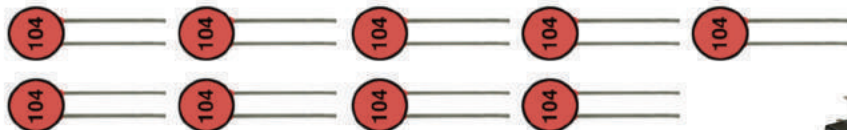
3mm Orange LED - LED4



TOTAL: 34

**CAPACITORS**

100nF Ceramic - C1, C2, C3, C4, C5, C8, C9, C10, C11



22uF Electrolytic - C6, C7



TOTAL: 11

**Potentiometers / Jacks**

B100kΩ 9mm Plastic Shaft  
Vertical Potentiometer  
R1, R2, R3, R4, R5, R6, R7, R8,  
R9, R10, R11, R12



**INTEGRATED CIRCUITS**

TL074 - U4, U8, U13, U14



74HC132N - U6, U12



MCP4822 - U5, U9



ATMEGA88 - U3, U7



TL082CP (or TL082CN) - U1, U2, U10



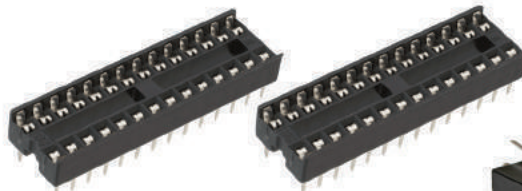
8 Pin DIP Socket - U1, U2, U5, U9, U10



14 Pin DIP Socket - U4, U6, U8, U12, U13, U14



28 Pin DIP Socket - U3, U7



TOTAL: 26

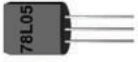
3.5mm Mono Vertical  
PCB Mount Inline Jack  
J1, J2, J3, J4, J7, J8, J9, J10  
J12, J13, J14, J15, J16, J17  
J18, J19, J20, J21, J24, J25  
J26, J27, J28, J29, J30, J31, J33



TOTAL: 39

**Voltage Regulators / Switches**

LM78L05 - U11



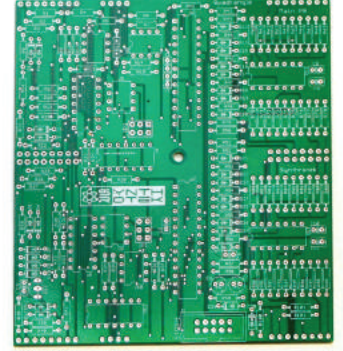
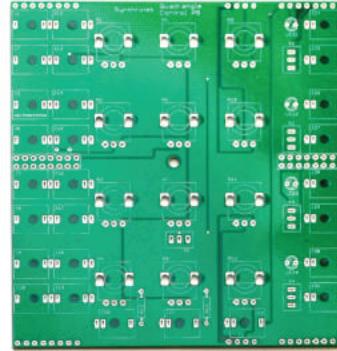
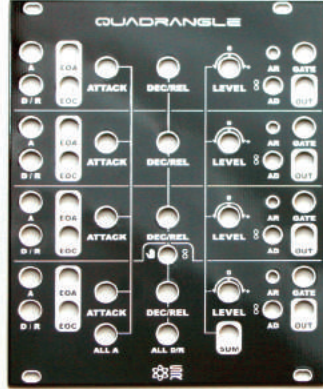
SPDT Sub Mini On/Off/On - S1, S2, S3, S4



SPDT Sub Mini On/On - S5



TOTAL: 6



4x1 Socket - SV1\*, SV2\*

\* denotes component is on the control board



TOTAL: 19

Other PCBs and Panel

**HEADERS**

8x1 Header - J2, J3, J6, J7



8x2 Header - J4, J5



4x1 Header - SV1, SV2



3x2 Header - JP1, JP2

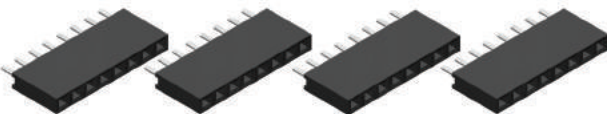


10 Pin Shrouded Header - J1



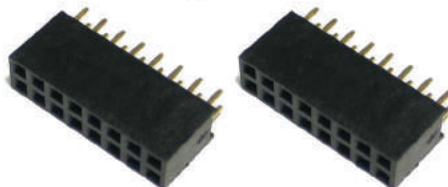
8x1 Socket - J5\*, J11\*, J22\*, J32\*

\* denotes component is on the control board



8x2 Socket - J6\*, J23\*

\* denotes component is on the control board



11mm Standoff



2.5mm Screws



3mm Screws



Rack Rash Washers

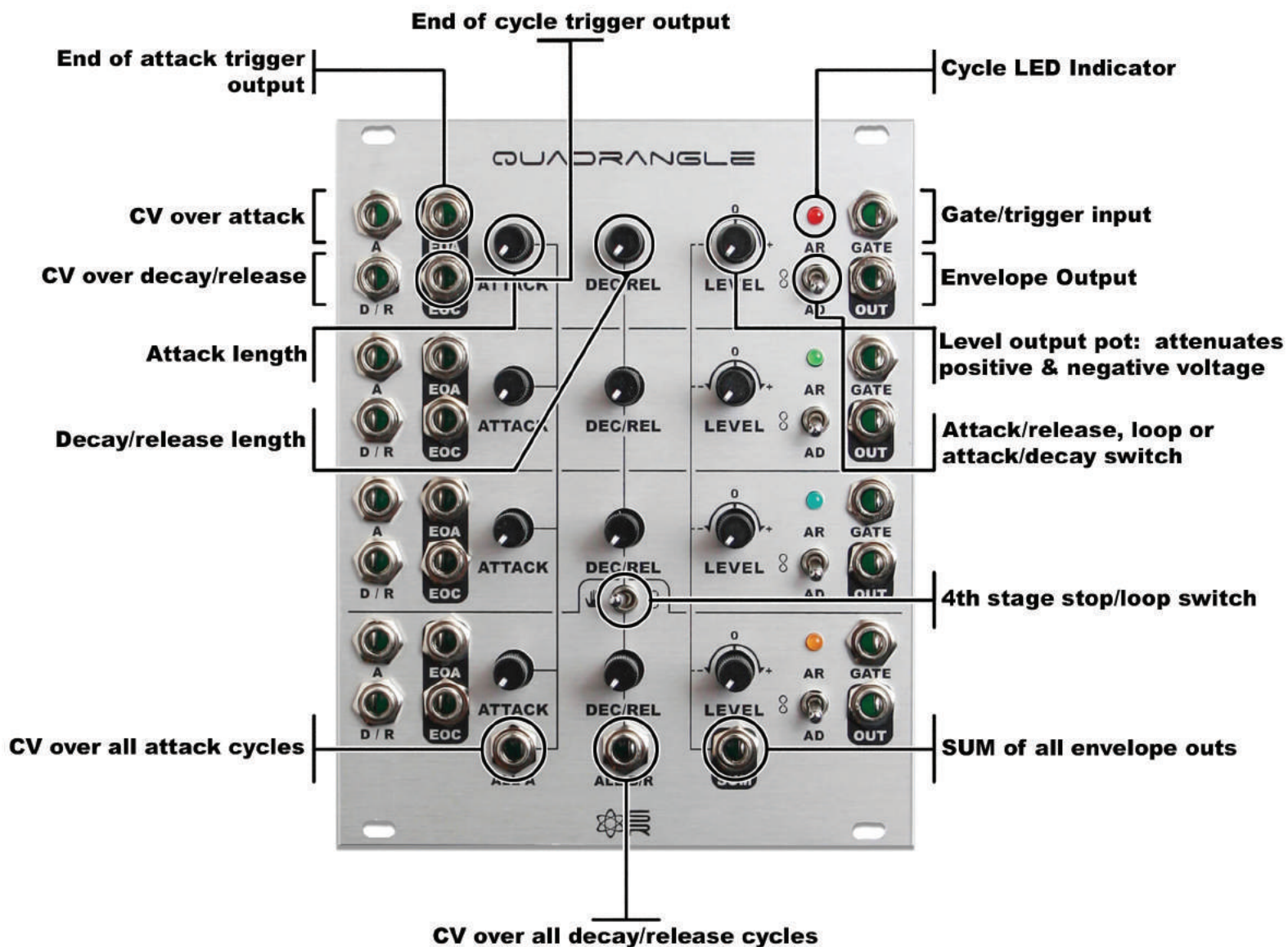


10 to 16 Pin Eurorack Power Cable



TOTAL: 19

# QUADRANGLE QUICK START GUIDE



The Quadrange is quad cascading triggered envelope generator with bipolar output attenuversion. Each channel has voltage control over attack and decay/release, end of attack and end of cycle trigger outputs, and mode (AR, loop and AD). Each channel's EOC is normalled to the next gate input, resulting in interesting rhythmic opportunities. Channel 4 has a "stop" or "continuous looping" switch which allows either a "one shot" cascaded envelope or continuous cycling. The SUM output allows for longer and more dynamic bipolar envelopes, perfect for interesting modulation. Users also have voltage control over all of the attacks and decay/releases simultaneously when using the ALL A and ALL D/R input jacks. Massive function generation, modulation, rhythm and versatility sets the Quadrange in a class of its own.

