

VIDEO EQUATIONS EURORACK BOM v1: 26 June 2017

REFERENCE	QUANTITY	VALUE
C1,C2	2	1nf / 50v / 5%
C3	1	220UF / 16v / 10%
C4,C5,C6	3	10uf / 16v / 10%
C7	1	100UF / 50V
D1 TO D15	15	1N4148
D16 TO D25	10	RED LED
D26	1	GREEN LED
D27	1	1N4001 / 50V / 1A
TACT BUTTONS	9	1 RED 1 BLACK 2 GREEN 2 WHITE 3 grey
POTS	7	10K POT
R1	1	270R / 1/4W / 1%
R2	1	510R / 1/4W / 1%
R3	1	1.1K / 1/4W / 1%
R4 & R6 TO R14	8	10K / 5% / 1/10W
R5	1	1K / 5% / 1/8W
R15 TO R34	9	100R / 5% / 1/8W
S1	1	SWITCH SPST
COMS	1	PINHEADER X 4
JACKS	7	THONKICON
S2	1	reset swtich
Y1	1	5MHZ CRYSTAL
X1	1	VERTICAL RCA JACK
U1	1	LM7805
U2	1	LM3940
IC1, IC2	2	DIL SOCKET 8PIN
X1	1	DIL SOCKET 16PIN
U\$2	1	DIL SOCKET 40PIN WIDE
SPACERS	4	10mm long M3 spacers
M3 BOLTS	8	4 X 10MM 4X 6MM
KNOBS	7	KN8F BLACK KNOB 16X15MM
EURO PINHEADER	1	2X8 PINHEADER
EURORACK 16PIN CABL	1	16 pin IDC CABLE and header
PARALAX PROPELLOR	1	40 pin Microcontroler
ADC	1	MCP3208 8ch ADC
RAM IC's	2	24AA08-I/P

PACKAGE

0603 CERAMIC
AVX-E TANTALUM
AVX-A TANTALUM
ELECTRO
LL-34
0805
0805

DO-41
DT6

ALPS VERTICAL POT

THROUGH HOLE
THROUGH HOLE
THROUGH HOLE

0603
0805
0805

EG1218S

VERTICAL 3.5MM JACK
6mm

HC49U-V
BTOR1

TO-220
TO-220

Dil 40 wide

LINK

<http://www.altronics.com.au/p/r8796-0.001uf-50v-x7r-603-smd-chip-capacitor-pk-10/>
<http://au.mouser.com/ProductDetail/AVX/TPSD227K010R0050/?qs=sGAEpiMZZMufz%2fr7jvSrZFBOWQllzG>
<http://au.mouser.com/ProductDetail/AVX/TAJA106M016RNJ/?qs=sGAEpiMZZMukHu%252bjC5I7YU1GdoD>
<http://au.mouser.com/ProductDetail/Panasonic/EEE-FK1H101P/?qs=sGAEpiMZZMukHu%252bjC5I7YU1GdoD>
<http://au.mouser.com/ProductDetail/Fairchild-Semiconductor/LL4148/?qs=sGAEpiMZZMtoHjESLttvkveAFn>
<http://www.altronics.com.au/p/y1107-red-0805-smd-led-pk-10/>
<http://www.altronics.com.au/p/y1116-yellow-green-0805-smd-led-pk-10/>
<http://www.altronics.com.au/p/z0109-1n4004-400v-1a-silicon-diode/>
<http://www.altronics.com.au/p/s1096-spst-momentary-black-pcb-mount-tactile-switch/>
<http://www.taydaelectronics.com/10k-ohm-linear-taper-potentiometer-round-shaft-pcb-9mm.html>
<http://www.altronics.com.au/p/r7544-270r-0.25w-metal-film-resistor-pk-10/>
<http://www.altronics.com.au/p/r7551-510r-0.25w-metal-film-resistor-pk-10/>
<http://www.altronics.com.au/p/r7559-1k1-0.25w-metal-film-resistor-pk-10/>
<http://www.altronics.com.au/p/r1668-10k-.1w-603-metal-film-smd-resistor-pk-10/>
<http://www.altronics.com.au/p/r1076-1k-.125w-805-metal-film-smd-resistor-pk-10/>
<http://www.altronics.com.au/p/r1004-100r-.125w-805-metal-film-smd-resistor-pk-10/>
<http://au.mouser.com/ProductDetail/E-Switch/EG1218/?qs=sGAEpiMZZMtHXLeqoNyVZDOWY7eITCOE4N>
<http://www.altronics.com.au/p/p5430-oupiin-40-way-header-pin/>
<https://www.thonk.co.uk/shop/3-5mm-jacks/>
<https://www.taydaelectronics.com/electromechanical/switches-key-pad/tact-switch/tact-switch-6x6mm-1>
<http://au.mouser.com/ProductDetail/Citizen-FineDevice/HC49US-5000MABJ-UB/?qs=sGAEpiMZZMsBj6bBr>
<http://au.element14.com/lumberg/btor-1-yellow/socket-rca-pcb-yellow/dp/1368642>
<http://www.altronics.com.au/p/z0505-7805-5v-1-amp-to-220-fixed-voltage-regulator/>
<http://au.mouser.com/ProductDetail/Texas-Instruments/LM3940IT-33-NOPB/?qs=sGAEpiMZZMvu8NZDyZ>
<http://www.altronics.com.au/p/p0550-oupiin-8-pin-0.3-inch-dil-tinned-ic-socket/>
<http://www.altronics.com.au/p/p0565-oupiin-16-pin-0.3-inch-dil-tinned-ic-socket/>
<http://www.altronics.com.au/p/p0575-oupiin-40-pin-0.6-inch-dil-tinned-ic-socket/>
<http://www.altronics.com.au/p/h1216-m3-x-10mm-tapped-spacer-pk-8/>
<http://www.altronics.com.au/p/h3120a-m3-x-10mm-pan-pozi-nickel-bolt-pk-25/>
<http://www.taydaelectronics.com/hardware/knobs-8688/kn8f-knob-black.html>
<http://www.altronics.com.au/p/p5410-oupiin-40-way-x-2-header-pin/>
<http://www.altronics.com.au/p/p5316-oupiin-16-pin-idc-cable-mounting-socket/>
<http://au.mouser.com/ProductDetail/Parallax/P8X32A-D40/?qs=sGAEpiMZZMthpPthBmvj74Lcdft9fv78UPF>
<http://au.mouser.com/ProductDetail/Microchip-Technology/MCP3208-CI-P/?qs=sGAEpiMZZMvTvDVTv69d2>
<http://au.mouser.com/ProductDetail/Microchip-Technology/24AA08-I-P/?qs=sGAEpiMZZMuVhdAcoizIRV5>

NOTES

YOU CAN USE WHATEVER COLOURS YOU WANT, BUT IVE GROUPED FUNCTIONS BY COLOUR

http://store.synthrotek.com/thonkiconn_mono_jack

You are going to want a long stem this one is 11mm, other wise you will need to use a pin to reset the unit 1

ive got to check this length to be sure it works

<http://www.altronics.com.au/p/h3110a-m3-x-6mm-pan-pozzi-nickel-bolt-pk-25/>

I USED BALCK AND WHITE

<http://www.altronics.com.au/p/w2616-16-wire-idc-cable/>

THESE COME WITH BUILT, KIT, OR BLANK PCB versions

SMD/TURNKEY	NEED	HAVE INSTOCK	NEED TO BUY
	0		
	0		
	0		
	0		
	0		
	0		
	0		
	14		4
	126		10
	98		35
	14		0
	14		0
	14		0
	0		
	0		
	0		
	14		4
	14		5
	98		98
	14		0
	14		10
	14		12
	14		6
	14		0
	28		3
	14		3
	14		3
	56		0
I HAVE TO CHECK	112		0
	98		
	14		0
COMES AS PARTS	14		12
	14		0
	14		3
	28		21

9 number of le

5 only buy 5
2 buy 4 header

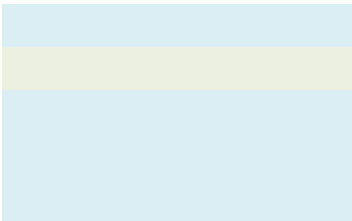
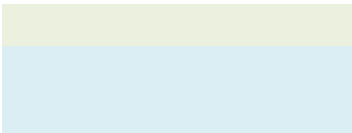
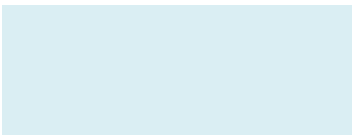
3 red 3 wite 6 green 1 black, 12 grey

NEEDED:				
22 green	13 black	11 red	30 grey	25 white

umber of lengths to buy	2.25
-------------------------	------

	19 cram 30 black	7 white	BLACK NEEDED =
uy 4 headers for the 2 kits			

BLUE IS ALTRONICS



10

