## C64 Keyboard Controlled Kernal Switch Rev. 1 Bill of Material Rev. 1.1

Biii di Material Nev. 1.1			
Qty Value	Footprint	RefNo.	Comment
1 128-2-01-01	2 Layer	PCB Rev. 1	2 layer, Cu $35\mu$ , HASL, $101.2$ mm x $20.0$ mm, $1.6$ mm FR4
copper structure on pcb		CP1	no part, open Cutpad, close for ASSY250469
1 1x20	1X20	J5	pin header 1x20pin, 2.54mm pitch
1 1x7	1X07	J4	pin header 1x7pin, 2.54mm pitch
5 100n	0805	C1, C2, C3, C6, C7	SMD capacitor
4 10k	0805	R1, R2, R4, R5	SMD resistor, 5% or better
11M	0805	R3	SMD resistor, 5% or better
2 1k	0805	R6, R7	SMD resistor, 5% or better
2 22p	0805	C4, C5	SMD capacitor
1 ATMEGA328P-AU	QFP80P900X90 0X120-32N	IC1	Atmel/Micro Chip, e.g. Farnell 2443176
1 BC846B	SOT23	Q1	SMD transistor
1 16 MHz/20pF quarz	HC49SLF	X1	e.g. Fox Electronics, FOXSLF/160-20, Farnell 2063950
1 LL4148	SOD80C	D1	SMD diode
1 M20-7862042	M20-7862042	J1	Harwin, e.g. Farnell 1256661
1WSL 6G	2X03WV	J2	box pin header, 2x3pin, 2.54mm pitch
1 1x5	1X05	J3	pin header 1x5pin, 2.54mm pitch
1 220R	0805	R8	SMD resistor, 5% or better
1330R	0805	R9	SMD resistor, 5% or better
1 n/a	0805	R10	not placed
Rev. History			
Rev. 0 -> Rev. 1.1			
PCB revision			
Now 7 pin			
	1 128-2-01-01 copper structure on pcb 1 1x20 1 1x7 5 100n 4 10k 1 1M 2 1k 2 22p 1 ATMEGA328P-AU  1 BC846B 1 16 MHz/20pF quarz 1 LL4148 1 M20-7862042 1 WSL 6G 1 1x5 1 220R 1 330R 1 n/a Rev. History Rev. 0 -> Rev. 1.1 PCB revision	Qty Value       Footprint         1 128-2-01-01       2 Layer         copper structure on pcb       1 1x20         1 1x7       1x07         5 100n       0805         4 10k       0805         1 1M       0805         2 1k       0805         2 22p       0805         1 ATMEGA328P-AU       QFP80P900X90         0X120-32N       0X120-32N         1 BC846B       SOT23         1 16 MHz/20pF quarz       HC49SLF         1 LL4148       SOD80C         1 M20-7862042       M20-7862042         1 WSL 6G       2X03WV         1 1x5       1x05         1 220R       0805         1 n/a       0805         Rev. History       Rev. History         Rev. O -> Rev. 1.1       PCB revision	Qty Value         Footprint         RefNo.           1 128-2-01-01         2 Layer         PCB Rev. 1           copper structure on pcb         LX20         J5           1 1x7         1X07         J4           5 100n         0805         C1, C2, C3, C6, C7           4 10k         0805         R1, R2, R4, R5           1 1M         0805         R3           2 1k         0805         C4, C5           1 ATMEGA328P-AU         QFP80P900X90 IC1           0X120-32N         US120-32N           1 BC846B         SOT23         Q1           1 16 MHz/20pF quarz         HC49SLF         X1           1 LL4148         SOD80C         D1           1 M20-7862042         M20-7862042         J1           1 WSL 6G         2X03WV         J2           1 1x5         1X05         J3           1 220R         0805         R8           1 330R         0805         R9           1 n/a         0805         R10           Rev. History         Rev. O -> Rev. 1.1         PCB revision

new

new

new

17

18

19

Page 1 of 1 03.10.2020 18:42:13 Doc.No.: 128-5-01-01.1