

## PAL-II BOM

ITEM	PART	QTY.	DESCRIPTION
1.	U1	1	6502 Microprocessor
2.	U2	1	6532 RAM I/O Timer Chip-02
3.	U3	1	6532 RAM I/O Timer Chip-03
4.	U5	1	28C16 Parallel EEPROM 16Kb (2K x 8)
5.	U7	1	628128 Static RAM 1Mb (128K x 8)
6.	U4	1	74LS138 3 to 8 Decoder
7.	U6, U8, U9	3	74LS145 BCD Decoder
8.	U10	1	74LS04 Hex Inverter
9.	U21, U23	2	74LS06 Hex Inverter Open Collector
10.	U11, U14, U24	3	74LS00 Quad NAND
11.	U12	1	74LS38 Quad NAND Open Collector
12.	U22	1	74LS133 13-input NAND
13.	U13	1	556 Timer
14.	D1	1	6.2V 1W Zener Diode - 1N4735A
15.	Q1 through Q6	6	PNP Transistor - 2N4403
16.	U15 through U20	6	FJ3101DH 7 seg. red LED C.Anode
17.	R1 through R6	6	3.3K $\Omega$ Resistor
18.	R7, R8	2	47K $\Omega$ Resistor
19.	R9-15,17,19,21,23,25,27,28,36-R40	19	1K $\Omega$ Resistor
20.	R16,18,20,22,24,26	6	220 $\Omega$ Resistor
21.	R29 through R35	7	680 $\Omega$ Resistor
22.	C1, C6-C22	18	0.1uf Capacitor
23.	C2, C3	2	0.22uf Capacitor
24.	C4	1	220pf Capacitor
25.	C5	1	1uf Polarized Capacitor
26.	X1	1	1 MHz Oscillator
27.	SW1, SW2, SW8-SW28	23	Push button switch (keypad)
28.	SW3	1	4mm Stem SPDT Switch
29.	SW6, SW7	2	SPDT Switch
30.	SW4	1	4x DIP Switch
31.	SW5	1	8x DIP Switch
32.	J1, J2	2	2x22 P2.54mm Horizontal connector
33.		18	IC Sockets
34.		23	Keycaps /w Legends
35.		1	Black SLA Keypad Cover
36.		3	M2x5 Black SS ST Screws
37.	PAL-II V2.3 PCB	1	FR4, Pb-free, Taiwan NAN YA
38.	Paperwork	3	Schematic, BOM, Layout
39.		1	MOS sticker
40.		1	Storage Bag (Static Free, Pink)
41.		1	Shipping Box