

MIDI-Retrofit-8 Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	100nF Ceramic	7	C101, C102, C402, C406, C407, C408, C409	RAD-0.2N
			NB: C102 - see modification	
2	10uF Low ESR Electrolytic	1	C410	RB-D6.3-P2.5
3	10uF 35V Electrolytic	4	C403, C404, C405, C411	RB-D5.0-P2.0
4	100uF 25V Electrolytic	1	C401	RB-D8-P3.5
	CONNECTOR			
5	8-pin IC Socket 0.3inch	2	U103, U404	DIP-8
6	2-way 0.1inch Crimp Housing	3	J401, J402, S101	2.54MM
7	8-way 0.1inch Straight Header	2	J201, J309	2.54MM
8	8-way 0.1inch Crimp Housing	2	J201, J309	2.54MM
9	20-pin IC Socket 0.3inch	1	U302	DIP-20
10	16-pin IC Socket 0.3inch	1	U301	DIP-16
11	2-way 0.1inch Straight Header	3	J401, J402, S101	2.54MM
12	CRIMP - KK254	22	J201^8, J309^8, J401^2, J402^2, S101^2	-
13	28-pin IC Socket 0.3inch	1	U101	DIP-28
	CRYSTAL			
14	16MHz Oscillator	1	X101	DIL-8
	DIODE			
15	1N4004 200V 1A	3	D401, D402, D403	DIODE-0.4
16	1N4148	1	D101	DIODE-0.3
	LINEAR			
17	6N138 - Opto-coupler	1	U103	DIP-8
18	LM317LZ - Adjustable Positive Voltage Regulator	1	U401	TO-92
19	78L05 +5V 100mA Fixed Voltage Regulator	1	U402	TO-92
20	TC962 Charge Pump DC-DC Converter	1	U404	DIP-8
21	MAX528 - Octal 8-bit DAC	1	U302	DIP-20N
22	ATMEGA8-16PU	1	U101	DIP-28N

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	LOGIC			
23	CD4504 - Octal Buffer	1	U301	DIP-16
	RESISTOR			
24	10R 1% 0.5W Metal Film	1	R403	AXIAL-0.4
25	220R 1% 0.5W Metal Film	1	R103	AXIAL-0.4
26	240R 1% 0.5W Metal Film	1	R402	AXIAL-0.4
27	510R 1% 0.5W Metal Film	1	R401	AXIAL-0.4
28	1K5 1% 0.5W Metal Film	1	R104	AXIAL-0.4
29	2K2 1% 0.5W Metal Film	8	R201, R202, R203, R204, R205, R206, R207, R208	AXIAL-0.4
30	10K 1% 0.5W Metal Film	2	R101, R102	AXIAL-0.4
31	15K 1% 0.5W Metal Film	1	R108	AXIAL-0.4
32	4 x 10K Commoned Resistor Network	1	RN102	SIP-5
	SWITCH			
33	4PST DIP	1	S103	DIP-8
34	SPNO Tactile Switch - 6mm - 3.5mm Plunger	1	S102	-
	TRIMPOT			
35	2K 25TV Cermet	1	P401	T93YA
36	5K 25TV Cermet	2	P101, P301	T93YA
	FIRMWARE			
37	FIRM - MIDI-Retrofit 8 V4.6	1	U101	-

