

Bill of Materials for ES12 - Triple Bi-Directional Router Full Kit V0.1

Item	Description	Qty	Designator	Package
	HARDWARE			
1	M3 Thumbscrew	2		-
			NB: Construct-A-Rack	
2	M3 x 6mm Bolt PH	2		-
			NB: Doefper Compatible Rails	
	PANEL			
3	ES12 - Triple Bi-Directional Router Front Panel A	1		-
	KITS			
4	ES12 - Triple BiDirectional Router PCB Set V0.1	1		-
5	ES12 - Triple Bi-Directional Router Hardware Kit V0.1	1		-
6	ES12 - Triple Bi-Directional Router Component Kit V0.1	1		-

Bill of Materials for ES12 - Triple Bi-Directional Router Component Kit V0.1

Item	Description	Qty	Designator	Package
CAPACITOR				
1	10nF 5% Ceramic, Medium K	3	C403, C404, C407	RAD-0.2N
2	100nF Ceramic Capacitor	1	C405	RAD-0.2N
3	10uF 35V Electrolytic	3	C401, C402, C406	RB-D5.0-P2.0
CONNECTOR				
4	1x4 Pin 20mm Header	6	J101, J104, J201, J204, J301, J304	-
5	IDC16 Box Header	1	J401	2.54MM
6	16-pin IC Socket 0.3inch	1	U101	DIP-16
HARDWARE				
7	9mm Earth Tag	1	PANEL_GND	-
INDUCTOR				
8	Ferrite Bead - 0.45uH 7A	2	L401, L402	-
LOGIC				
9	CD4053 - Triple 2-channel Multiplexer	1	U101	DIP-16
RESISTOR				
10	1K0 1% 0.5W Metal Film	2	R401, R403	AXIAL-0.4
11	8K2 1% 0.5W Metal Film	1	R402	AXIAL-0.4
12	15K 1% 0.5W Metal Film	3	R102, R202, R302	AXIAL-0.4
13	47K 1% 0.5W Metal Film	3	R101, R201, R301	AXIAL-0.4
14	330K 1% 0.5W Metal Film	3	R103, R203, R303	AXIAL-0.4
TRANSISTOR				
15	2N3904 NPN Transistor	3	Q101, Q201, Q301	TO-92
UNITS				
16	Panther - IDC16 - 24cm	1	J401	-

