

RQDX Breakout Board - Rev A

Bill of Materials - Element14 (Formerly Farnell)

Malcolm Macleod - 14 June 2014

Reference	Value	Item count	PCB / Schematic Notes	Description	Part Number	Unit Price	Line Price
C1, C5	100uF 16V	2	PCB footprint: 5mm dia, 2mm pitch	PANASONIC - ECA1CAM101X - CAP, ALU ELEC, 100UF, 16V, RAD	8767122	0.17	0.34
C2..C4	0.1uF	0	PCB footprint: 7.2x2.5mm, 0.2" pitch.	WIMA MKS2 Series - Film (PET) 63V +/-5% [Not available for 6 weeks!]	1890134	0.11	0.00
As above	As above	3		KEMET - R82EC3100DQ70J - CAPACITOR POLY FILM 0.1UF, 100V, 5%, RAD [Selected this because no stock of the WIMA MKS2 part]	1617988	0.053	0.16
C6	0.01uF	1	PCB footprint: 7.2x2.5mm, 0.2" pitch.	WIMA MKS2 Series - Film (PET) 63V +/-5%	1890143	0.152	0.15
D2	1N914	1		FAIRCHILD SEMICONDUCTOR - 1N914B	1651151	0.17	0.17
J5, J6	20-PIN BOX HEADER	2		Amphenol T821120A1S100CEU	2215309	1.09	2.18
J1, J11	34-PIN BOX HEADER	2		Amphenol T821134A1S100CEU	2215313	1.26	2.52
J12	50-PIN BOX HEADER	1		Amphenol T821150A1S100CEU	2215315	1.19	1.19
J10	4-Pin R/A 2.5mm Header	1	As used on 3.5" floppy disk drives	TE CONNECTIVITY / AMP - 171826-4 - HEADER, RIGHT ANGLE, 4 WAY, 2.5MM PITCH	1056115	0.385	0.39
JP1..JP4, JP7..JP10	2-PIN JUMPER	8		MOLEX - 22284026 - HEADER, 2WAY	1513367	0.073	0.58
JP5, JP6, JP11, JP12, JP13, JP14	3-PIN JUMPER	6		MULTICOMP (FORMERLY FROM SPC) - SPC20482 - BOARD-BOARD CONNECTOR HEADER, 3WAY, 1ROW	1258954	0.081	0.49
LED1	RED LED 3mm	1	10mA	MULTICOMP - MCL514PD (70 degrees, 1.6mcd)	1581128	0.075	0.08
R1	330R	1		MULTICOMP - MCMF0W2FF3300A10 - RESISTOR, METAL FILM, 330 OHM, 500mW, 1%	1126883	0.029	0.03
R2..R10	47K	3		MULTICOMP - MF25 47K - RESISTOR, 47K, 0.25W, 1%	9341960	0.086	0.26
RP1	4.7K 9-PIN ARRAY	1		MULTICOMP - MCRNLA09G0472B0E - RESISTOR NETWORK, THICK FILM, 8, 4.7KOHM, 2%, 9SIP	1602072	0.035	0.04
RP2	1K 9-PIN ARRAY	1		MULTICOMP - MCRNLA09G0102B0E - RESISTOR, NETWORK, 1K, 2%, 1/8W	1973138	0.26	0.26
U1	74LS00	1		TEXAS INSTRUMENTS - SN74LS00N - IC, 74LS, 74LS00, DIP14, 5.25V	1106069	0.85	0.85
U2	7406	1		TEXAS INSTRUMENTS - SN7406N - IC, HEX INVERTER BUFFER, 5V, DIP14	1105938	0.356	0.36
U3	LM555N	1		TEXAS INSTRUMENTS - TLC555CP - IC, TIMER CMOS, DIP8, 555	1103036	1.14	1.14
Optional items:							
	8-pin IC socket - Dual Wipe	0		TE CONNECTIVITY / AMP - 1-1825093-2 - CONNECTOR, DIP RECEPTACLE, THT, 8WAY	1654374	0.213	0.00
	14-pin IC socket - Dual Wipe	0		MULTICOMP (FORMERLY FROM SPC) - SPC154	1183573	0.086	0.00
	8-pin IC socket - Turned Pin	1		MILL MAX - 110-43-308-41-001000 - DIP SOCKET, 8POS, THROUGH HOLE	1362805	0.553	0.55
	14-pin IC socket - Turned Pin	2		MULTICOMP (FORMERLY FROM SPC) - SPC15526 - DIP SOCKET, 14POS, THROUGH HOLE	1183597	1.46	2.92
H1..H4	Stick on feet	0.17	PCB can accommodate 12mm diameter feet	HAMMOND - 1421T5CL - FEET, STICK ON, PK24 (11.1mm x 5mm, transparent)	1876520	9.81	1.64
	Jumpers	14		3M - 969102-0000-DA - SHUNT, 2POS, 2.54MM	1908384	0.17	2.38
Total (ex GST)							\$18.66
GST (10%)							\$1.87
Total (incl GST)							\$20.52