

Mobo-BOM

TuBika Motherboard BOM								
Ref	Description	Package	Value	Qty	Mouser	Farnell	Reichelt	Digi Key
R8, R10, R11	Metal film resistor 1%		220	3	660-MF1/4DCT52R2200F	9341528	METALL 220	221XBK-ND
R1, R2, R3, R4, R5, R6, R7, R17, R18	Metal film resistor 1%		470	22	660-MF1/4DCT52R4700F	9341943	METALL 470	475XBK-ND
R9, R13, R16	Metal film resistor 1%		10k	3	660-MF1/4DCT52R1002F	9341110	METALL 10,0K	10.0KXBK-ND
RN1	1 + 6 Resistor network	SIL7	10k	1	652-4607X-1LF-10K		SIL 7-6 10K	4607X-101-103LF
RN2	1 + 8 Resistor network	SIL9	10k	1	652-4609X-1LF-10K	9356819	SIL 9-8 10K	4609X-101-103LF
R12, R14	Metal film resistor 1%		100k	2	660-MF1/4DCT52R1003F	9341129	METALL 100k	100KXBK-ND
R36	Adjustable resistor		5k	1	652-3386P-1-502LF	9355111		
R28, R29, R30, R31, R37, R38, R39, R41	Pot, vertical, PCB mount		10kB	8	688-RK09D1130C2P	1191725		
	Pot, vertical, PCB mount		100kA	1	688-RK09D113F25C0A			
	Knobs for pots, w/ marker			9	450-BA761	1441142		
C5, C22, C24	Ceramic	2.5mm pitch	22p	3	75-1C10C0G220J050B	1694229	KERKO 22P	478-4846-ND
C6	Ceramic	2.5mm pitch	100p	1	594-K101K15C0GF53L2	1694179	KERKO 100P	399-4142-ND
C2, C3, C7, C10, C11, C13, C15, C17	Ceramic	2.5mm pitch	100n	15	75-1C10Z5U104M050B	1216444	X7R-2,5 100N	BC1148CT-ND
C1	Film	7.5mm pitch	1u	1	871-B32520C105J	9752382		495-1121-ND
C8, C14, C16, C23	Electrolytic, > 15V	2.5mm pitch	100u	4	647-UVR1C101MDD1TD	1600568	RAD 100/16	P13476-ND
C4	Electrolytic, > 25V	5mm pitch	2200u	1	647-UVZ1E222MHD			UVZ1E222MHD-ND
C9	Electrolytic, > 25V	7.5mm pitch	4700u	1	647-UVY1E472MHD			UVY1E472MHD-ND
Q1	Quartz	HC49	20 MHz	1	717-9B-20.000MAAJ-B	1701141		887-1023-ND
D1, D2, D4, D6, D8	1N4001	DO-41		5	625-1N4001-E3/73	1651084	1N 4001	641-1311-1-ND
D3	1N4148	DO-35		1	78-1N4148-TAP	1612346	1N4148	1N4148TACT-ND
D5, D7, D9	1N5819	DO-41		3	512-1N5819	9801219	1N 5819	1N5819FSCT-ND
LED1 .. LED15	Yellow / Green dual color LED 2 leaded			15	604-WP937GYW	1581206	LED 3 RY	
OK1	6N137	DIP8		1	782-6N137	1021197	6N 137	6N137QT-ND
IC7	LM7805ACT vreg	TO220	+5V	1	863-MC7805ACTG	1102157	µA 7805	MC7805ACTGOS-ND
IC6	LM2940T-8.0 vreg	TO220	+8V	1	926-LM2940T-80/NOPB	9490230		LM2940T-8.0-ND
IC5	LM7908ACT vreg	TO220	-8V	1	863-MC7908ACTG	1652358	µA 7908	MC7908ACTG-ND
IC2	MCP1700 vreg	TO92 INLINE	+3.3V	1	579-MCP1700-3302E/TO	1296588		MCP1700-3302E/TO-ND
IC1	TL072 dual op-amp	DIP8		1	595-TL072CP	1103005	TL 072 DIP	497-2201-5-ND
IC4	74HC138N 3-8 decoder	DIP16		1	771-74HC138N	9591087	74HC 138	296-12785-5-ND
IC3	4050N hex buffer	DIP16		1	771-HC4050N . Od E	380908/ 1739945		296-9213-5-ND
IC9	74HC165N PISO reg	DIP16		1	595-SN74HC165N	380635	74HC 165	568-1410-5-ND
IC10, IC11	74HC595N POSI reg	DIP16		2	595-SN74HC595N	3166028	74HC 595	568-1484-5-ND
IC8	ATMega644p MCU, 20MHz	DIP40		1	556-ATMEGA644PA-PU	1455122	ATMEGA 644P-20PU	ATMEGA644PA-PU-ND
	DIP8 socket	DIP8		2	571-1-390261-2	1101345	GS8	A100204-ND
	DIP16 socket	DIP16		2	571-1-390261-4	1183574	GS16	A100206-ND
	DIP40 socket	DIP40		1	571-1-390262-5	4285669	GS40	A94140-ND
X1, X2	DIN 180o Socket, 5P			2	161-0504-E	9175814	MABP 5S	CP-2350-ND
J1	AC Jack	2.1mm		1	163-7620E-E	1737246	HEBW 21	CP-202A-ND
J2, J3, J4, J5, J6, J7, J8	Audio Jack, Neutrik Slim series NRJ4HF			7	550-10284, 550-1005		NEUTRIK NR-J4HF	
JP1, JP2, JP3, JP4, JP5, JP6	Female 1x6 header, 2.54mm			6	782-A000084			
JP7	Male 1x6 header, 2.54mm			1	649-77311-118-06LF	1593423	SL 1X36G 2,54	3M9451-ND
U1	Male 2x3 header, 2.54mm			1	649-67996-406HLF	1022230	SL 2X10G 2,54	3M9459-ND
LCD connector	Male 2x8 header, 2.54mm			1	649-67996-416HLF	1022240	SL 2X10G 2,54	3M9461-ND
	Heatsink, 15.24x12.7mm			2	567-230-75AB	4621177		345-1040-ND
	Heatsink		< 16 °C / W	1	567-265-118ABH-22	179934		HS336-ND
S1, S2, S3, S4, S5, S6, S7, S8	Tact switch, TL1100 series			8	612-TL1100	1633010		EG1821-ND
	Black cap for TL1100 series switch			8	611-F1201			EG1081-ND
SW	Rotary encoder w/ switch, 24 steps, 25mm shaft			1	652-PEC12R-4225F-S24	1520813	STEC12E08	
	Knob for encoder, w/o marker			1	450-BA600	1441143		
LCD	2x40 LCD module			1	763-NHD-0240AZ-FLYBW or 805-51850NFJSLWADN	2063178		
	SD card holder			1	571-2041021-1	2112526		A101492CT-ND
	PCB	259.7 x 156.2		1	TubeOhm			