

BOM-PHOENIX MOBO

Phoenix INDEX	Motherboard BOM Description	VALUE	Qty	MOUSER	FARNELL	REICHEL	DIGIKEY
X1,X2	Midi connector		2	161-0504-E	9175814		CP-2350-ND
R20	Resistor 1%	3.3 to 68	1	660-MF1/4DC3R32F	9341781	METALL 3,30	BC3.32ZCT-ND
R19, R18, R2-R9	Resistor 1%	220	3	660-MF1/4DCT52R2200F	9341528	METALL 220	221XBK-ND
R15, R16	Resistor 1%	2.2k	2	660-MF1/4DCT52R2201F	9341536	METALL 2,20K	2.21KXBK-ND
R14, R1	Resistor 1%	10k	9	660-MF1/4DCT52R1002F	9341110	METALL 10,0K	10.0KXBK-ND
R21	Trimmer	5k	1	81-PV36X502C01B00	1141403	64W-5,0K	SP064W-5.0K-ND
D1	Diode 1N 4148		1	78-1N4148-TAP	1612346	1N 4148	1N4148TACT-ND
RN1	Resistor network	10k	1	652-4607X-1LF-10K	9356819 [2]	SIL 7-6 10K	CSC10KJ-ND
C6, C7	Ceramic cap	18p	2	594-K180J15C0GF5TL2	1694209	KERKO 18P	BC1004CT-ND
C1..C5, C8..C10	Ceramic cap	100n	8	75-1C10Z5U104M050B	2309020	X7R-2,5 100N	BC1148CT-ND
	IC Socket DIP 8		2	571-1-390261-2	1654374	GS8	A100204-ND
	IC Socket DIP 16		2	571-1-390261-4	1101347	GS16	A100206-ND
	IC Socket DIP 40		1	571-1-390262-5	4285669	GS40	A94140-ND
Q1	Quartz	20Mhz	1	717-9B-20.000MAAJ-B	1701141		887-1023-ND
ATMega644p	ATMega644p		1	556-ATMEGA644P-20PU	1455122	ATMEGA 644P-20PU	ATMEGA644PA-PU-ND
IC2	74hc165		1	595-SN74HC165N	1013928	74HC 165	568-1410-5-ND
IC3	74hc595		1	595-SN74HC595N	1013845	74HC 595	568-1484-5-ND
IC4	AT24C128B or 24LC128I/P	512	1	579-24LC512-E/P	9758020	24LC512-I/P	24LC512-I/P-ND
OK1	6N137		1	782-6N137	9994866	6N 137	6N137QT-ND
LED1-7	LEDs blue resistor +1kOhm or 10 Kohm		7			LED 3MM BL	
LED 8	LED red resistor 220 Ohm		1			LED 3MM ST RT	
Inc/dec	Clickable encoder, 20 or 24 steps		1	652-PEC12R-4225F-S24			
S1-S6	Switches		6	612-TL1100	1633010		EG1821-ND
S1-S6	Caps		6				EG1081-ND
Edit1-4	Linear pot	10k	4	688-RK09D1130C2P	1191725		
	Knob		4	450-BA761	1441142		
	Knob, without cursor		1	450-BA600	1441143		
	LCD display 2x16, HD44780 compatible		TubeOhm			LCD 162C BL (blue)	NHD-0216K1Z-NSW-BBW-L-ND (white)
	Male/male connector for LCD, 1x16		1	649-68001-416HLF	1593423	3M9454-ND	SL 1X36G 2,54
	Male/male connector for board stacking, 1x8		1	649-68001-408HLF	1593423	3M9452-ND	SL 1X36G 2,54
	Male/male connector for ISP, 2x3		1	649-67996-406HLF	1022230	3M9459-ND	SL 2X10G 2,54
	Shruthi-1 control board v0.8 PCB		1			TubeOhm Phoenix	