

BoM, for kit building assembly

WORST CASE PRICES (unit q

ref	value	Vendor	Vendor P/N	NOTE1	NOTE 2	QTY	RATE	AMOUNT
C3	100n	DigiKey	399-5863-ND		Decoupling capacitor	1	\$0.22	\$0.22
C4	100n	DigiKey	399-5863-ND		Decoupling capacitor	1	\$0.22	\$0.22
C5	100u	DigiKey	493-1107-ND		Capacitor Voltage Rating >= 50V	1	\$0.31	\$0.31
C6	100n	DigiKey	399-5863-ND		Decoupling capacitor	1	\$0.22	\$0.22
C7	100n	DigiKey	399-5863-ND		Decoupling capacitor	1	\$0.22	\$0.22
C8	10n	DigiKey	495-2460-ND		Decoupling capacitor	1	\$0.30	\$0.30
C9	10n	DigiKey	495-2460-ND		Decoupling capacitor	1	\$0.30	\$0.30
C10	10n	DigiKey	495-2460-ND		Decoupling capacitor	1	\$0.30	\$0.30
D1	Z5V1	DigiKey	1N5231B-ND		over voltage protection	1	\$0.12	\$0.12
D2	Z5V1	DigiKey	1N5231B-ND		over voltage protection	1	\$0.12	\$0.12
D3	DBG	DigiKey	1080-1134-ND		Debug LED, 3mm or 5mm LED, any Color	1	\$0.41	\$0.41
D4	PWR	DigiKey	1080-1134-ND		Power On LED, 3mm or 5mm LED, any Color	1	\$0.41	\$0.41
D5	Z15V	DigiKey	1N5245BFSCT-ND		over voltage protection	1	\$0.12	\$0.12
DP1	LED_4X7SEG	DigiKey	LDQ-N286RI-ND	Optional	4 dig display, for voltage	0	\$5.30	\$0.00
K1	BAT_MON					1		0
K2	LOAD					1		0
K3	FTDI	DigiKey	SAM1031-50-ND		Header, Male, 6 pin, for FTDI	1	\$0.37	\$0.37
K4	ISP	DigiKey	SAM1095-36-ND	Optional	Header, 3x2 pin, for ISP	0	\$0.53	\$0.00
K5	V_CUTOFF	DigiKey	SAM1095-36-ND	Optional	Header, 3x2 pin, for voltage cutoff select	1	\$0.53	\$0.53
K6	V_SEL	DigiKey	SAM1031-50-ND		Header, Male, 3 pin, for V_SEL (FTDI / Batt)	1	\$0.19	\$0.19
		DigiKey	S9341-ND		Jumper socket for V_SEL K6	1	\$0.19	\$0.19
P1	METER_H	--	--	Not required		1	\$0.00	\$0.00
P2	METER_L	--	--	Not required		1	\$0.00	\$0.00
P3	METER_H	DigiKey	SAM1043-50-ND	Optional	if mounting voltage display	0	\$0.53	\$0.00
P4	METER_L	DigiKey	SAM1043-50-ND	Optional	if mounting voltage display	0	\$0.53	\$0.00
P5	CONN_1	--	--	Not required		1	\$0.00	\$0.00
P6	I2C	DigiKey	SAM1031-50-ND	Optional	Header, Male, 4 pin, for I2C	0	\$0.25	\$0.00
P7	CONN_1	--	--	Optional	mounting screw	1	\$0.00	\$0.00
P8	CONN_1	--	--	Optional	mounting screw	1	\$0.00	\$0.00
P9	CONN_1	--	--	Optional	mounting screw	1	\$0.00	\$0.00
P10	CONN_1	--	--	Optional	mounting screw	1	\$0.00	\$0.00
P11	DIP_SW	--	--		jumper links for mode selection	1	\$0.00	\$0.00
P12	DIP_SW	--	--		jumper links for mode selection	1	\$0.00	\$0.00
PCB1	PCB	--	--			1	\$9.00	\$9.00
R1	110k	DigiKey	S110KCACT-ND	110k, 1% tol, 50ppm		1	\$0.14	\$0.14
R2	40k	DigiKey	CMF40.2KQFCT-ND	40.2k, 1% tol, 50ppm		1	\$0.31	\$0.31
R3	110k	DigiKey	S110KCACT-ND	110k, 1% tol, 50ppm		1	\$0.14	\$0.14

R4	40k	DigiKey	CMF40.2KQFCT-ND	40.2k, 1% tol, 50ppm		1	\$0.31	\$0.31
R5	10k	DigiKey	CF18JT10K0CT-ND		Resistor, 1/8W, 5%	1	\$0.09	\$0.09
R7	150E	DigiKey	CF18JT150RCT-ND		Resistor, 1/8W, 5%	1	\$0.09	\$0.09
R8	1k	DigiKey	CF18JT1K00CT-ND		Resistor, 1/8W, 5%	1	\$0.09	\$0.09
R10	1k5	DigiKey	CF18JT1K50CT-ND		Resistor, 1/8W, 5%	1	\$0.09	\$0.09
R11	1k5	DigiKey	CF18JT1K50CT-ND		Resistor, 1/8W, 5%	1	\$0.09	\$0.09
R12	2k	DigiKey	CF18JT2K00CT-ND		Resistor, 1/8W, 5%	1	\$0.09	\$0.09
SW1	RST	DigiKey	450-1657-ND		Right Angle switch	1	\$0.20	\$0.20
SW2	RST	DigiKey	450-1649-ND	Optional	Push button switch, Short Button	0	\$0.20	\$0.00
U1	SSR	DigiKey	PVDZ172NPBF-ND			1	\$8.70	\$8.70
		DigiKey	516-2192-5-ND	Optional		0	\$5.70	\$0.00
U2	7805	DigiKey	MC7805CTGOS-ND		Voltage Regulator, 5V	1	\$0.53	\$0.53
U3	ATMEGA328-P	DigiKey	ATMEGA328-PU-ND		Micro Controller	1	\$3.93	\$3.93
U4	ULN2003	DigiKey	497-2344-5-ND	Optional	darlington array, if using voltage board	1	\$0.53	\$0.53
X1	16MHz	DigiKey	X908-ND		Resonator, with capacitors, 3 pin	1	\$0.70	\$0.70
						45	\$42.62	\$29.58

NOT USED COMPONENTS

						0	0	0

MISC. COMPONENTS

						0	0	0

GRAND TOTAL			\$29.58
-------------	--	--	---------