

## BOM - mainboard

partnumber	package	pins	pitch	purpose	description	multiplier	1	25	100	price@1	price@25	price@100
ADS1015	msop	10	0.5	adc	voltage + current measurement	1	\$3.25	\$2.60	\$2.08	\$3.25	\$2.60	\$2.08
MCP4728	msop	10	0.5	dac	noninverting opamp input	1	\$2.06	\$1.58	\$1.44	\$2.06	\$1.58	\$1.44
LPC1343	lqfp	48	0.5	mcu	usb comm	1	\$6.30	\$5.06	\$4.61	\$6.30	\$5.06	\$4.61
TS5A21366	dcu	8	0.5	hbridge	pole-invert hbridge	4	\$1.69	\$1.35	\$1.20	\$6.76	\$5.40	\$4.80
TS5A23157DGSR	msop	10	0.5	switch	mode switch	1	\$0.99	\$0.77	\$0.68	\$0.99	\$0.77	\$0.68
INA2332	tssop	14	0.65	insamp	current feedback loop	1	\$3.87	\$3.10	\$2.60	\$3.87	\$3.10	\$2.60
OPA567	qfn	12	1	opa	output buffer	2	\$6.93	\$5.76	\$5.23	\$13.86	\$11.52	\$10.46
ERJ-6GEYJ182V	0805	2	2	pullup	1.8ko pullup resistor	1	\$0.04	\$0.02	\$0.01	\$0.04	\$0.02	\$0.01
ERJ-6GEYJ330V	0805	2	2	protect	33o usb protection	2	\$0.04	\$0.02	\$0.01	\$0.08	\$0.03	\$0.02
08055C104MAT2A	0805	2	2	decoup	decoupling cap	4	\$0.08	\$0.08	\$0.03	\$0.32	\$0.32	\$0.11
MCP1700T-3302E/TT	SOT23	5	0.5	vreg	supply for lpc1343	1	\$0.40	\$0.37	\$0.31	\$0.40	\$0.37	\$0.31
LR2512LF-01-R500-FT	2512	2	6.3	sense	.5o current sense	2	\$0.60	\$0.60	\$0.50	\$1.20	\$1.20	\$1.00
ABLS-12.000MHZ-B2-T	SMD	2	4.2	clock	12MHz crystal	1	\$0.45	\$0.38	\$0.36	\$0.45	\$0.38	\$0.36
08055A180JAT2A	0805	2	2	clockcap	18pF load cap	2	\$0.11	\$0.11	\$0.07	\$0.22	\$0.22	\$0.13
BAT54S,215	SOT23	3	0.5	protect	shottky diode	4	\$0.08	\$0.06	\$0.06	\$0.32	\$0.24	\$0.23
UX60A-MB-5ST	USB	5		usb	USB mini-B F	1	\$1.18	\$0.85	\$0.69	\$1.18	\$0.85	\$0.69
ERJ-6GEYJ913V	0805	2	2	gainset	91ko gainset	2	\$0.04	\$0.02	\$0.01	\$0.08	\$0.03	\$0.02
ERJ-6GEYJ103V	0805	2	2	gainset	10ko gain resistor	2	\$0.04	\$0.02	\$0.01	\$0.08	\$0.03	\$0.02
ERJ-6GEYJ333V	0805	2	2	lpcadc	33ko divider resistor	6	\$0.04	\$0.02	\$0.01	\$0.24	\$0.10	\$0.07
ERJ-6GEYJ163V	0805	2	2	lpcadc	16ko divider resistor	6	\$0.04	\$0.02	\$0.01	\$0.24	\$0.10	\$0.07
S5440-ND	header	4	2.54	output	4 pin right angle header	1	\$0.64	\$0.53	\$0.34	\$0.64	\$0.53	\$0.34
15-24-4745	molex	4	5.08	power	4 pin ATX power	0	\$1.62	\$1.26	\$0.96	\$0.00	\$0.00	\$0.00
										\$42.58	\$34.45	\$30.07