

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
Project source code at <https://github.com/eez-open>

#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
1	1	2x3-pin socket	THT; 2x3-pin socket	MCU-ICSP	Arduino Shield	1	7991983	M20-7830346	1,210	10	M20-7830346	1,000	M20-7830346	0,940	681-6832
2	19	100n 16V X7R	0603	C11, C26, C30, C37, C42, C54, C55, C56, C60, C61, C62, C65, C69, C70, C73, C75, C79, C82, C83	Power board	38									
	1	100n 16V X7R	0603	C91	AUX PS	1									
	27	100n 16V X7R	0603	C113, C114, C115, C116, C117, C118, C121, C122, C123, C124, C126, C128, C129, C136, C137, C138, C139, C140, C141, C142, C143, C147, C149, C150, C151, C153, C156	Arduino Shield	27									
						66	2496832	0603B104K160CT	0,012	10	0603YC104KAT2 A	0,010	06033C104K4T4 A	0,025	391-246
3	1	100u 35V	SMD ELCO; Ø6.3 x 7.7mm	C97	AUX PS	1	1539501	EEEFPV101XAP	0,694	1	EEEFPV101XAP	0,800	EEEFPV101XAP	0,805	568-515
4	4	10n 50V X7R	0805	C133, C146, C154, C155	Arduino Shield	4									
	6	10n 50V X7R	0805	C34, C45, C53, C58, C80, C84	Power board	12									
						16	1759246	MC0805B103K500 CT	0,009	10	CL21B103KBCN NNC	0,027	GRM216R71H10 3KA01D	0,014	461-4013
5	2	10u 50V X7R	1210	C107, C125	Arduino Shield	2									
	3	10u 50V X7R	1210	C12, C20, C66	Power board	6									
						8	2362133	GRM32ER71H106 KA12L	0,748	1	CL32B106KBJN NWE	0,335	GRM32ER71H10 6KA12L	0,376	766-1214
6	1	10u 35V	SMD ELCO; Ø5 x 5.8mm	C120	Arduino Shield	1	1850112	EEEFK1V100R	0,436	1	EEEFK1V100R	0,430	EEEFK1V100R	0,434	708-3443
7	1	10u 10V	1206, Tantalum	C144	Arduino Shield	1									
	1	10u 10V	1206, Tantalum	C67	Power board	2									
						3	1457413	T491A106K010AT	0,260	5	T491A106K010A T	0,340	T491A106K010A T	0,344	538-2278
8	2	120p 50V NP0	0805 / 0603	C21, C50	Power board	4	1414667	C0805C121J5GAC TU	0,044	10	CL21C121JBAN NNC	0,058	C0805C121J5GA CTU	0,031	723-6209
9	1	180p 50V NP0	0805 / 0603	C96	AUX PS	1	1759207	MC0805N181J500 CT	0,042	10	CL21C181JBAN NNC	0,090	C0805C181J5GA CTU	0,100	723-6221
10	2	18p 50V NP0	0805 / 0603	C131, C135	Arduino Shield	2	2320820	MC0805N180J101 CT	0,026	10	CL21C180JBAN NNC	0,090	C0805C180J5GA CTU	0,100	648-0935
11	3	1n 50V NP0	0805 / 0603	C41, C63, C64	Power board	6									
	1	1n 50V NP0	0805 / 0603	C94	AUX PS	1									
						7	1759227	MC0805N102J500 CT	0,029	10	CL21C102JBCN NNC	0,065	C0805C102J5GA CTU	0,038	378-710
12	4	1u 100V X7R	1206, 100V	C10, C28, C31, C44	Power board	8									
	2	1u 100V X7R	1206, 100V	Cout1, Cout2	Arduino Shield	2									
						10	2320876	MC1206B105K101 CT	0,200	5	CL31B105KCHN NNE	0,253	GRM31CR72A10 5KA01L	0,227	740-7590
13	7	1u 50V X7R	0805, 50V	C13, C57, C59, C68, C74, C76	Power board	14	2118131	C0805C105K5RAC TU	0,215	5	CL21B105KBFN NNE	0,129	08055C105K4T2 A	0,135	766-1062
14	1	22n 50V X7R	0805	C130	Arduino Shield	1									

RS Components						TME							Price calculation for 1 set				Price calculation for 10 sets					
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy	
1	1	2x3-pin socket	M20-7830346	0,899	5	ZL262-6DG	0,070	10	0,070 €	1		Mouser	0,094	1	0,094	10	TME	0,070	10	0,700	0,070	
2	19	100n 16V X7R																				
	1	100n 16V X7R																				
	27	100n 16V X7R																				
			0603YC104JAT2 A	0,004	50	CL10B104KO8NNNC	0,004	100	0,264 €	66		TME	0,004	100	0,440	660	Mouser	0,002	700	1,400	0,140	
3	1	100u 35V	EEEEFPV101XAP	0,406	5	EEEEFPV101XAP	0,350	5	0,350 €	1		Farnell	0,694	1	0,694	10	TME	0,350	10	3,500	0,350	
4	4	10n 50V X7R																				
	6	10n 50V X7R																				
			CC0805KRX7R9 BB103	0,007	50	CL21B103JBANNNC	0,006	100	0,096 €	16		Farnell	0,009	20	0,180	160	TME	0,006	200	1,200	0,120	
5	2	10u 50V X7R																				
	3	10u 50V X7R																				
			CL32B106KBJN NNE	0,601	10	CL32B106KBJNNNE	0,201	10	1,608 €	8		TME	0,201	10	2,010	80	TME	0,156	100	15,600	1,560	
6	1	10u 35V	EEEEFK1V100R	0,274	25	EEEEFK1V100R	0,200	5	0,200 €	1		Digikey	0,335	1	0,335	10	TME	0,200	10	2,000	0,200	
7	1	10u 10V																				
	1	10u 10V																				
			T491A106K010A T	0,196	10	T491A106K010AT	0,085	10	0,254 €	3		Digikey	0,340	3	1,020	30	TME	0,085	30	2,535	0,254	
8	2	120p 50V NP0	GRM2165C1H1 21JA01D	0,035	100	CL21C121JBANNNP	0,007	100	0,027 €	4		Mouser	0,031	10	0,310	40	Mouser	0,031	50	1,550	0,155	
9	1	180p 50V NP0	GRM2165C1H1 81JA01D	0,035	100	CL10C181JB8NNNC	0,006	100	0,006 €	1		Digikey	0,090	1	0,090	10	Mouser	0,042	20	0,840	0,084	
10	2	18p 50V NP0	C0805C180J5G ACTU	0,157	10	CL21C180JBANNNC	0,071	100	0,053 €	2		Digikey	0,090	2	0,180	20	Mouser	0,040	30	1,200	0,120	
11	3	1n 50V NP0																				
	1	1n 50V NP0																				
			0805CG102J9B B	0,021	25	CL21C102JBCNNNC	0,010	100	0,068 €	7		Farnell	0,029	10	0,290	70	TME	0,010	100	1,000	0,100	
12	4	1u 100V X7R																				
	2	1u 100V X7R																				
			C3216X7R2A10 5K160AA	0,174	10	GRM31CR72A105KA0 1L	0,128	10	1,279 €	10		TME	0,128	10	1,280	100	TME	0,103	100	10,300	1,030	
13	7	1u 50V X7R	CL21B105KBFN NNF	0,041	100	CL21B105KBFNNG	0,014	100	0,200 €	14		Digikey	0,129	15	1,935	140	TME	0,014	200	2,858	0,286	
14	1	22n 50V X7R																				

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							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
	1	22n 50V X7R	0805	C29	Power board	2									
	2	22n 50V X7R	0805	C87, C90	AUX PS	2									
						5	1759252	MC0805B223K500 CT	0,016	10	CL21B223KBAN NNC	0,058	C0805C223K5R AC	0,031	464-6701
15	5	2n2 50V NP0	0805 / 0603	C47, C48, C49, C51, C81	Power board	10	1759236	MC0805N222J500 CT	0,052	10	CL21C222JBFN NNG	0,078	GRM2165C1H22 2JA01D	0,076	802-9905
16	3	2u2 25V X7R	0805	C24, C36, C38	Power board	6	2320829	MC0805B225K250 CT	0,106	10	CL21B225KAFN NWE	0,126	GRM21BR71E22 5KA73L	0,101	766-1031
17	2	330p 50V NP0	0805 / 0603	C17, C33	Power board	4									
	1	330p 50V NP0	0805 / 0603	C89	AUX PS	1									
						5	1759213	MC0805N331J500 CT	0,027	10	CL21C331JBAN NNC	0,029	C0805C331J5GA C	0,029	723-6271
18	5	3n3 50V X7R or NP0	0805 / 0603	C40, C71, C72, C77, C78	Power board	10	1759291	MC0805B332K101 CT	0,015	10	CL21B332KBAN NNC	0,045	C0805C332K5R AC	0,024	237-7009
19	1	3n9 50V X7R or NP0	0805 / 0603	C95	AUX PS	1	1759240	MC0805B392K500 CT	0,022	10	CL21B392KBAN NNC	0,090	C0805C392K5R ACTU	0,091	766-1047
20	3	470n 50V X7R	0805, 50V	C9, C25, C32	Power board	6									
	2	470n 50V X7R	0805, 50V	C104, C109	Arduino Shield	2									
						8	2470492	GRM21BR71H474 KA88L	0,163	5	CL21B474KBFN FNE	0,139	C0805C474K5R ACTU	0,103	766-1053
21	1	470p 50V NP0	0805 / 0603	C23	Power board	2	1759217	MC0805N471J500 CT	0,023	10	CL21C471JBAN NNC	0,090	08055A471JAT2 A	0,091	378-700
22	2	47n 50V X7R	0805	C148, C152	Arduino Shield	2									
	1	47n 50V X7R	0805	C98	AUX PS	1									
						3	2496983	0805B473K500CT	0,023	10	CL21B473KBCN NNC	0,090	08055C473KAT2 A	0,091	391-303
23	1	47n 400V Polyester Film	THT R=7,5mm	C86	AUX PS	1	2468839	B32520E6473K000	0,358	1	-	-	-	-	668-9993
24	2	47p 50V NP0	0805 / 0603	C46, C52	Power board	4	1414692	C0805C470J5GAC TU	0,028	10	CL21C470JBAN NNC	0,043	C0805C470J5GA CTU	0,029	264-4270
25	1	47u 35V	SMD ELCO, Ø6.3 x 5.8mm	C119	Arduino Shield	1									
	2	47u 35V	SMD ELCO, Ø6.3 x 5.8mm	C27, C35	Power board	4									
						5	9695850	EEEFK1V470P	0,493	1	EEEFK1V470P	0,440	EEEFK1V470P	0,443	565-623
26	4	4n7 100V X7R	0805	C1, C2, C3, C22	Power board	8									
	4	4n7 100V X7R	0805	C105, C108, C110, C112	Arduino board	4									
						12	1759293	MC0805B472K101 CT	0,019	10	CL21B472KCAN NNC	0,065	GRM21AR72D47 2KW01D	0,050	698-3364
27	1	4u7 10V	1206, Tantalum	C145	Arduino Shield	1									
	1	4u7 10V	1206, Tantalum	C43	Power board	2									
						3	1457428	T491A475K016AT	0,238	5	T491A475K010A T	0,310	T491A475K010A T	0,299	538-2341
28	3	4u7 100V X7R	1210, 100V, X7R	C6, C7, C8	Power board	6	2211140	CGA6M3X7S2A47 5K200AB	1,560	1	GRJ32DC72A47 5KE11L	1,240	GRJ32DC72A47 5KE11L	1,250	915-5415
29	3	4u7 25V X7R	1210, 25V	C88, C92, C93	AUX PS	3	1907365	C3225X7R1E475K 200AA	0,484	1	C3225X7R1E475 K200AA	0,390	C3225X7R1E475 K200AA	0,389	515-8508

RS Components						TME						Price calculation for 1 set				Price calculation for 10 sets					
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	1	22n 50V X7R																			
	2	22n 50V X7R																			
			08055C223KAT2 A	0,015	50	CL21B223KBANNNC	0,008	100	0,042 €		5	Farnell	0,016	10	0,157	50	TME	0,008	100	0,841	0,084
15	5	2n2 50V NP0	C0805C222J5G ACTU	0,043	100	GRM2165C1H222JA0 1D	0,015	100	0,145 €		10	Farnell	0,052	10	0,520	100	TME	0,015	100	1,500	0,150
16	3	2u2 25V X7R	CL21B225KAFN NNF	0,057	100	CL21B225KAFNNNG	0,027	50	0,165 €		6	Mouser	0,101	10	1,010	60	TME	0,027	100	2,744	0,274
17	2	330p 50V NP0																			
	1	330p 50V NP0																			
			GRM2165C1H3 31JA01D	0,042	100	CL21C331JBANNNC	0,014	100	0,069 €		5	Farnell	0,022	10	0,220	50	TME	0,014	100	1,400	0,140
18	5	3n3 50V X7R or NP0	GRM216R71H3 32KA01D	0,038	50	CL21B332KBANNNC	0,007	100	0,069 €		10	Farnell	0,015	10	0,150	100	TME	0,007	100	0,700	0,070
19	1	3n9 50V X7R or NP0	CL21C392JBFN NNF	0,074	50	CL21B392KBANNNC	0,009	100	0,009 €		1	Digikey	0,090	1	0,090	10	Farnell	0,022	20	0,440	0,044
20	3	470n 50V X7R																			
	2	470n 50V X7R																			
			CL21B474KBF4 PNG	0,085	50	CL21B474KBFNNNG	0,015	100	0,122 €		8	Mouser	0,103	10	1,030	80	TME	0,015	100	1,530	0,153
21	1	470p 50V NP0	0805CG471J9B B	0,021	25	CL21C471JBANNNC	0,009	100	0,018 €		2	Digikey	0,090	2	0,180	20	Farnell	0,023	30	0,699	0,070
22	2	47n 50V X7R																			
	1	47n 50V X7R																			
			08055C473KAT2 A	0,011	50	CC0805KRX7R9473	0,008	100	0,025 €		3	Digikey	0,090	3	0,270	30	TME	0,008	100	0,820	0,082
23	1	47n 400V Polyester Film	B32520C6473K1 89	0,241	10	-			0,241 €	1		Farnell	0,358	1	0,358	10	RS	0,241	10	2,410	0,241
24	2	47p 50V NP0	C0805C470J5G ACTU	0,014	25	CC0805JRNPO9470	0,007	100	0,030 €		4	Farnell	0,028	10	0,284	40	RS	0,014	50	0,700	0,070
25	1	47u 35V																			
	2	47u 35V																			
			EEEFK1V470AP	0,165	5	EEEFK1V470P	0,157	5	0,786 €		5	TME	0,157	5	0,786	50	TME	0,127	50	6,350	0,635
26	4	4n7 100V X7R																			
	4	4n7 100V X7R																			
			08051C472KAZ 2A	0,036	25	CL21B472KCANNNC	0,006	100	0,076 €		12	Farnell	0,019	20	0,380	120	TME	0,006	200	1,260	0,126
27	1	4u7 10V																			
	1	4u7 10V																			
			T491A475K016A T	0,179	10	T491A475M010AT	0,128	5	0,384 €		3	TME	0,128	5	0,640	30	TME	0,128	30	3,840	0,384
28	3	4u7 100V X7R	CGA6M3X7S2A 475K200AB	0,686	5	-			4,116 €		6	Digikey	1,240	6	7,440	60	RS	0,686	60	41,160	4,116
29	3	4u7 25V X7R	GRM32ER71H4 75KA88L	0,608	10	CL32A475KAULNNE	0,119	10	0,358 €		3	Mouser	0,389	3	1,167	30	TME	0,119	30	3,579	0,358

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							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
30	2	6n8 50V X7R or NP0	0603	C132, C134	Arduino Shield	2	1759100	MC0603B682K500 CT	0,007	10	CL10B682KB8N NNC	0,090	GRM188R71H68 2KA01J	0,091	147-825
31	1	6n8 (X1 / Y2) PP Film 300Vac 1000Vdc	THT R=10mm	C85	AUX PS	1	2478385	R413F16804000M	0,528	1	R413F16804000 M	0,520	R413F16804000 M	0,525	871-2489
32	1	1F 5,5V Backup Cap	THT	C127	Arduino Shield	1	9697497	EEC-S5R5H105	4,660	1	EEC-S5R5H105	3,480	EEC-S5R5H105	3,510	339-6843
33	1	100u 63V	SMD ELCO; Ø10 x 10.2mm	C18	Power board	2	9696040	EEEFK1J101P	0,846	1	EEE-FK1J101P	0,930	EEE-FK1J101P	0,932	708-3623
34	1	47u 63V	SMD ELCO; Ø8x10.2mm	C16	Power board	2	9696032	EEEFK1J470P	1,040	1	EEE-FK1J470P	0,880	EEE-FK1J470P	0,887	708-3614
35	2	22u 50V	SMD ELCO; Ø6.3x5.8mm	C106, C111	Arduino Shield	2	9696016	EEEFK1J220P	0,537	1	PCE3820CT-ND	0,760	667-EEE- FK1J220P	0,760	708-3598
36	1	BAS316	SOD-323	D21	AUX PS	1									
	5	BAS316	SOD-323	D22, D23, D24, D25, D27	Arduino Shield	5									
	9	BAS316	SOD-323	D6, D11, D12, D13, D14, D15, D16, D17, D18	Power board	18									
						24	8734275	BAS316,115	0,192	5	BAS316,115	0,175	BAS316,115	0,174	397-2914
37	1	BAT54S	SOT-23	D28	Arduino Shield	1	1621835	BAT54S	0,125	10	BAT54SLT1G	0,150	BAT54SLT1G	0,145	670-8797
38	1	DFLS1100-7	PowerDi 123	D19	AUX PS	1									
	2	DFLS1100-7	PowerDi 123	D7, D10	Power board	4									
						5	1713889	DFLS1100-7	0,424	1	DFLS1100-7	0,370	DFLS1100-7	0,476	708-2292
39	1	SKL16	SOD-323	D20	AUX PS	1									
	1	SKL16	SOD-323	D29	Arduino Shield	1									
	2	SKL16	SOD-323	D8, D9	Power board	4									
						6	8738025	PMEG4005AEA	0,104	5	PMEG4005AEA	0,325	PMEG4005AEA	0,286	485-729
40	1	SMBJ5.0A-TR	DO-214AA	D26	Arduino Shield	1	9886311	SMBJ5.0A-TR	0,088	10	SMBJ5.0A-TR	0,380	SMBJ5.0A	0,302	714-7210
41	1	STPS15H100	TO-252	D5	Power board	2	2344052	STPS15H100CB- TR	1,070	1	STPS15H100CB	0,900	STPS15H100CB	0,896	795-9075
42	3	60R@100MHz	0603 Ferrite Bead	FB1, FB2, FB3	Power board	6									
	1	60R@100MHz	0603 Ferrite Bead	FB4	AUX PS	1									
	1	60R@100MHz	0603 Ferrite Bead	FB7	Arduino Shield	1									
		Würth 742792602	0603 Ferrite Bead			8	1635704	742792602	0,210	1	742792602	0,210	742792602	0,160	669-4049
43	1	LTC3864EMSE#PBF	MSOP-12	IC1	Power board	2	2293128	LTC3864EMSE#PB F	4,520	1	LTC3864EMSE# PBF	3,960	-	-	-
44	1	REF5025AIDG4	SOIC-8	IC10	Power board	2	1439622	REF5025AIDG4	3,720	1	REF5025AIDR	2,990	REF5025AIDR	2,910	404-304
45	1	DAC8552IDGKTG4	MSOP-8 (VSSOP-8)	IC11	Power board	2	1329584	DAC8552IDGKTG4	6,420	1	DAC8552IDGKT	7,660	DAC8552IDGKR	6,510	662-1498
46	1	ADG465BRTZ	SOT-23	IC12	Power board	2	2376952	ADG465BRTZ- REEL7	1,690	1	Discontinued		Discontinued		-
47	1	TS5A9411DCKT	SC-70	IC13	Power board	2	1755582	TS5A9411DCKT	1,050	1	TS5A9411DCKR	0,560	TS5A9411DCKR	0,534	459-459
48	1	ADS1120IPWR	TSSOP-16	IC14	Power board	2	2402249	ADS1120IPWR	6,760	1	ADS1120IPWR	6,250	ADS1120IPWR	6,100	-
49	1	LP339D	SOIC-14	IC15	Power board	2	9589686	LP339D	0,573	1	LP339DR	0,520	LP339DR	0,498	661-2659
50	1	LM25575MH/NOPB	HTSSOP-16	IC16	AUX PS	1	1564783	LM25575MH/NOPB	4,360	1	LM25575MHX/N OPB	3,540	LM25575MHX/N OPB	3,450	288-774
51	1	MC79L05	SOIC-8	IC2	Power board	2	2323583	MC79L05ACD	0,428	1	MC79L05ACD	0,380	MC79L05ACD	0,371	661-6131
52	1	TLC5925IDBQR	SSOP-24	IC20	Arduino Shield	1	1694438	TLC5925IDBQR	1,520	1	TLC5925IDBQR	1,370	TLC5925IDBQR	1,330	812-3984
53	2	Si8641EC-B-IS1	SOIC-16	IC21, IC24	Arduino Shield	2	2423294	Si8641EC-B-IS1	3,210	1	Si8641EC-B-IS1	2,780	Si8641EC-B-IS1	2,720	753-2438
54	2	Si8651EC-B-IS1	SOIC-16	IC22, IC23	Arduino Shield	2	2423323	Si8651EC-B-IS1	3,150	1	Si8651EC-B-IS1	3,190	Si8651EC-B-IS1	3,060	753-2497

RS Components						TME							Price calculation for 1 set				Price calculation for 10 sets				
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy
30	2	6n8 50V X7R or NP0	C0603C682K5R ACTU	0,007	50	CL10B682JB8NNNC	0,004	100	0,008 €		2	Farnell	0,007	10	0,070	20	RS	0,007	50	0,350	0,035
31	1	6n8 (X1 / Y2) PP Film 300Vac 1000Vdc	890334023003C S	0,420	10	MKP-Y2-6N8	0,158	5	0,158 €	1		Digikey	0,520	1	0,520	10	TME	0,158	10	1,584	0,158
32	1	1F 5,5V Backup Cap	EECS5R5H105	3,556	1	EECS5R5H105	2,190	1	2,190 €	1		TME	2,190	1	2,190	10	TME	1,670	10	16,700	1,670
33	1	100u 63V	EEEFK1J101P	0,641	5	EEEFK1J101P	0,380	5	0,760 €		2	Farnell	0,846	2	1,692	20	TME	0,380	20	7,600	0,760
34	1	47u 63V	EEEFK1J470P	0,784	5	EEEFK1J470P	0,456	1	0,911 €		2	TME	0,456	2	0,912	20	TME	0,290	20	5,800	0,580
35	2	22u 50V	EEEFK1J220P	0,255	5	EEEFK1J220P	0,260	5	0,510 €		2	TME	0,537	2	1,074	20	TME	0,260	20	5,200	0,520
36	1	BAS316																			
	5	BAS316																			
	9	BAS316																			
			BAS316,115	0,195	50	BAS316,115	0,019	25	0,444 €		24	TME	0,019	25	0,463	240	TME	0,014	300	4,080	0,408
37	1	BAT54S	BAT54S	0,202	10	BAT54S.215	0,017	50	0,017 €		1	Mouser	0,145	1	0,145	10	Farnell	0,125	10	1,250	0,125
38	1	DFLS1100-7																			
	2	DFLS1100-7																			
			DFLS1100-7	0,392	25	-			1,850 €		5	Digikey	0,370	5	1,850	50	Farnell	0,330	50	16,500	1,650
39	1	SKL16																			
	1	SKL16																			
	2	SKL16																			
			PMEG4005AEA, 115	0,325	20	SKL16	0,095	5	0,571 €		6	TME	0,095	10	0,952	60	TME	0,038	75	2,850	0,285
40	1	SMBJ5.0A-TR	SMBJ5.0A-TR	0,245	25	SMBJ5.0A-TR	0,094	5	0,088 €		1	Mouser	0,302	1	0,302	10	Farnell	0,088	10	0,880	0,088
41	1	STPS15H100	STPS15H100CB -TR	0,924	5	-			1,792 €		2	Mouser	0,896	2	1,792	20	Mouser	0,760	20	15,200	1,520
42	3	60R@100MHz																			
	1	60R@100MHz																			
	1	60R@100MHz																			
		Würth 742792602	742792602,000	0,172	10	LCBA-600	0,027	25	0,215 €		8	Mouser	0,160	10	1,600	80	TME	0,027	100	2,690	0,269
43	1	LTC3864EMSE#PBF				-			7,920 €		2	Digikey	3,960	2	7,920	20	Digikey	3,960	20	79,200	7,920
44	1	REF5025AIDG4	REF5025AID	3,500	1	-			5,820 €		2	Mouser	2,910	2	5,820	20	Mouser	2,620	20	52,400	5,240
45	1	DAC8552IDGKTG4	DAC8552IDGKT	6,524	1	-			12,840 €		2	Farnell	6,420	2	12,840	20	Mouser	5,880	20	117,600	11,760
46	1	ADG465BRTZ				-			3,380 €		2	Farnell	1,690	2	3,380	20	Farnell	1,400	20	28,000	2,800
47	1	TS5A9411DCKT	TS5A9411DCKT	0,570	10	-			1,068 €		2	Mouser	0,534	2	1,068	20	Farnell	0,382	20	7,640	0,764
48	1	ADS1120IPWR				-			12,200 €		2	Mouser	6,100	2	12,200	20	Farnell	4,890	20	97,800	9,780
49	1	LP339D	LP339DR	0,175	10	LP339D	0,244	3	0,350 €		2	TME	0,244	3	0,732	20	RS	0,175	20	3,500	0,350
50	1	LM25575MH/NOPB	LM25575MH/NO PB	4,060	1	-			3,450 €		1	Mouser	3,450	1	3,450	10	Mouser	3,100	10	31,000	3,100
51	1	MC79L05	MC79L05ACD	0,308	10	MC79L05ACD	0,202	3	0,404 €		2	TME	0,202	3	0,606	20	TME	0,184	20	3,680	0,368
52	1	TLC5925IDBQR	TLC5925IDBQR	1,109	10	-			1,109 €		1	Mouser	1,330	1	1,330	10	RS	1,109	10	11,090	1,109
53	2	Si8641EC-B-IS1	Out of stock			-			5,440 €		2	Mouser	2,720	2	5,440	20	Mouser	2,640	20	52,800	5,280
54	2	Si8651EC-B-IS1	Si8651EC-B-IS1	3,038	1	-			6,076 €		2	RS	3,038	2	6,076	20	Farnell	2,860	20	57,200	5,720

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
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#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
55	1	LD1117ADT33TR	TO-252	IC24	Arduino Shield	1	1087169	LD1117DT33	0,358	5	LD1117ADT33TR	0,590	LD1117ADT33TR	0,570	686-9123
56	1	PCA21125T/Q900/1,1	TSSOP-14	IC26	Arduino Shield	1	2400445	PCA21125T/Q900/1,1	1,870	1	PCA21125T/Q900/1,1	1,610	PCA21125T/Q900/1,1	1,660	-
57	1	AT25256B	SOIC-8	IC27	Arduino Shield	1	1841577	AT25256B-SSHL-B	1,190	1	AT25256B-SSHL-B	1,300	AT25256B-SSHL-B	1,290	738-0079
58	1	W5500	LQFP-48	IC28	Arduino Shield	1	-	W5500	3,750		W5500	3,750	W5500	2,390	-
59	1	MC78L05	SOIC-8	IC3	Power board	2	9593845	UA78L05ACDR	0,488	1	MC78L05ACD	0,360	MC78L05ACD	0,366	688-9269
60	1	BC857BS	SOT-363	IC29	Arduino Shield	1	1653608	BC857BDW1T1G	0,141	1	BC857BDW1T1G	0,210	BC857BDW1T1G	0,199	690-0101
61	1	TLC555	SOIC-8	IC30	Arduino Shield	1	9589880	NE555DR	0,300	1	NE555D	0,350	NE555D	0,353	662-4006
62	1	SN74LVC2G08DCTR	SSOP-8	IC31	Arduino Shield	1	1470871	SN74LVC2G08DC TR	0,414	1	SN74LVC2G08DCTR	0,530	SN74LVC2G08DCTR	0,516	662-8910
63	1	TPS3705-33D	SOIC-8	IC32	Arduino Shield	1	2296066	TPS3705-33D	1,330	1	TPS3705-33DR	1,580	TPS3705-33D	1,840	662-3331
64	1	SN74LV1T34DBVR	SOT-23	IC33	Arduino Shield	1	2499914	SN74LV1T34DBVR	0,457	1	SN74LV1T34DBVR	0,410	SN74LV1T34DBVR	0,398	-
65	1	SN74LVC2G02DCTR	SSOP-8	IC34	Arduino Shield	1	1236358	SN74LVC2G02DC TR	0,452	1	SN74LVC2G02DCTR	0,590	SN74LVC2G02DCTR	0,570	-
66	1	LM5574MTX/NOPB	TSSOP-16	IC4	Power board	2	2323534	LM5574MTX/NOPB	3,930	1	LM5574MTX/NOPB	3,430	LM5574MTX/NOPB	3,340	288-960
67	1	LP2951D	SOIC-8	IC5	Power board	2	1755066	LP2951D	0,573	1	LP2951DR	0,520	LP2951DR	0,498	796-8095
68	2	TL072CD	SOIC-8	IC6, IC7	Power board	4	1467663	TL072CDT	0,252	5	TL072CDT	0,430	TL072CDT	0,416	857-907P
69	1	OP27GSZ	SOIC-8	IC8	Power board	2	9426124	OP27GSZ	2,810	1	OP27GSZ	3,140	OP27GSZ	3,080	522-8304
70	1	MCP23S08-E/SO	SOIC-18	IC9	Power board	2	1332092	MCP23S08-E/SO	1,030	1	MCP23S08-E/SO	0,960	MCP23S08-E/SO	1,030	403-812
71	2	RT424005	THT	K_PAR, K_SER	Arduino Shield	2	9950168	G2RL-2 5DC	3,940	1	RTE24005	2,920	RTE24005	2,850	198-6898
72	2	G6K-2F-5DC	SMD, relay	K_S1, K_S2	Arduino Shield	2	4446185	G6K-2F 5DC	5,870	1	G6K-2F DC5	3,860	G6K-2F-5DC	4,000	683-9633
73	1	SK 145/37,5	THT Heatsink	KK1	AUX PS	1	4621414	SK 145/37,5 STS-220	3,530	1	-	-	-	-	-
74	1	RN114-4/02	THT, solder on bottom layer!	L1	Power board	2	1191484	RN114-4-02	3,720	1	RN114-4/02	2,870	RN114-4/02	2,600	525-3697
75	1	470uH	SMD; 7.3mm x 7.3mm	L10	AUX PS	1	2455059	SRR0745A-471M	0,918	1	SRR0745A-471M	0,770	SRR0745A-471M	0,814	770-1182
76	1	33uH - 7443551331	SMD; 13.2mm x 12.8mm	L2	Power board	2	2211631	Würth - 7443551331	3,070	1	7443551331	3,380	7443551331	2,970	-
77	2	IHLP2020CZER3R3M11	SMD; 5.49mm x 5.18mm	L3, L4	Power board	4	1741325	IHLP2020CZER3R3M11	1,410	5	IHLP2020CZER3R3M11	2,160	IHLP2020CZER3R3M11	1,030	748-6912
78	3	2u2	1210	L5, L6, L7	Power board	6									
	1	2u2	1210	L8	AUX PS	1									
						7	2470305	LQH32PN2R2NN0L	0,274	5	LQH32PN2R2NN0L	0,318	LQH32PN2R2NN0L	0,265	786-6885
79	1	100uH	SMD, 12mm x 12mm	L9	AUX PS	1	2113014	SRU1038-101Y	1,010	1	SRU1038-101Y	0,720	SRU1038-101Y	0,758	692-0644
80	1	TFT_320QVT	THT; 2x20-pin socket	LCD1	Arduino Shield	1	7992033	M20-7832046	2,750	1	M20-7832046	3,160	M20-7832046	2,530	681-6851
81	2	HSMG-C170	0805 Green	LED_O1, LED_O2	Arduino Shield	2	5790852	HSMG-C170	0,204	10	HSMG-C170	0,490	HSMG-C170	0,060	435-6767
82	5	HSMH-C170	0805 Red	LED_CC1, LED_CC2, LED_PROG1, LED_PROG2, LED_SP	Arduino Shield	5	5790840	HSMH-C170	0,488	5	HSMH-C170	0,440	HSMH-C170	0,060	486-0468
83	1	HSMD-C170	0805 Orange	LED_PWR	Arduino Shield	1	5790864	HSMD-C170	0,240	5	HSMD-C170	0,440	HSMD-C170	0,060	486-0525
84	4	HSMY-C170	0805 Yellow	LED_CV1, LED_CV2, LED_S1, LED_S2	Arduino Shield	4									

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
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RS Components						TME						Price calculation for 1 set				Price calculation for 10 sets					
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy
55	1	LD1117ADT33TR	LD1117ADT33TR	0,294	10	LD1117ADT33	0,315	3	0,294 €		1	Mouser	0,570	1	0,570	10	TME	0,284	10	2,840	0,284
56	1	PCA21125T/Q900/1,1				-			1,610 €		1	Digikey	1,610	1	1,610	10	Digikey	1,450	10	14,500	1,450
57	1	AT25256B	AT25256B-SSHL-B	1,267	2	25AA256-I/SN	1,290	1	1,190 €		1	Farnell	1,190	1	1,190	10	Farnell	1,130	10	11,300	1,130
58	1	W5500				W5500	2,190	1	2,190 €		1	TME	2,190	1	2,190	10	TME	2,000	10	20,000	2,000
59	1	MC78L05	MC78L05ABDR2G	0,245	2	MC78L05ABDG	0,165	3	0,330 €		2	TME	0,165	3	0,495	20	TME	0,100	20	2,000	0,200
60	1	BC857BS	BC857BDW1T1G	0,022	25	BC857BS	0,027	25	0,022 €		1	Farnell	0,141	1	0,141	10	RS	0,022	25	0,550	0,055
61	1	TLC555	TLC555CDR	0,218	10	TLC555CDR	0,384	3	0,218 €		1	Farnell	0,300	1	0,300	10	RS	0,218	10	2,180	0,218
62	1	SN74LVC2G08DCTR	SN74LVC2G08DCTR	0,465	5	-			0,414 €		1	Farnell	0,414	1	0,414	10	Farnell	0,414	10	4,140	0,414
63	1	TPS3705-33D	Out of stock	1,114	5	-			1,114 €		1	Farnell	1,330	1	1,330	10	Farnell	1,330	10	13,300	1,330
64	1	SN74LV1T34DBVR				-			0,398 €		1	Mouser	0,398	1	0,398	10	Mouser	0,309	10	3,090	0,309
65	1	SN74LVC2G02DCTR				SN74LVC2G02DCTR	0,252	5	0,252 €		1	Farnell	0,452	1	0,452	10	TME	0,252	10	2,520	0,252
66	1	LM5574MTX/NOPB	LM5574MT/NOPB	3,948	1	LM5574MT	4,150	1	6,680 €		2	Mouser	3,340	2	6,680	20	Mouser	3,000	20	60,000	6,000
67	1	LP2951D	LP2951D	0,613	5	LP2951CM/NOPB	0,495	1	0,990 €		2	TME	0,495	2	0,990	20	TME	0,388	20	7,760	0,776
68	2	TL072CD	TL072CD	0,252	1	TL072CD	0,164	3	0,654 €		4	TME	0,164	6	0,984	40	TME	0,135	50	6,770	0,677
69	1	OP27GSZ	OP27GSZ	3,024	1	OP27GSZ	1,550	1	3,100 €		2	TME	1,550	2	3,100	20	TME	1,320	20	26,400	2,640
70	1	MCP23S08-E/SO	MCP23S08-E/SO	1,249	5	MCP23S08-E/SO	1,060	1	1,920 €		2	Digikey	0,960	2	1,920	20	Digikey	0,801	20	16,020	1,602
71	2	RT424005	RTE24005	4,676	1	RT424005	1,260	1	2,520 €	2		TME	1,260	2	2,520	20	TME	1,190	20	23,800	2,380
72	2	G6K-2F-5DC	G6K2F5DC	4,928	1	G6K-2F-5DC	2,490	1	4,980 €		2	TME	2,490	2	4,980	20	TME	2,340	20	46,800	4,680
73	1	SK 145/37,5				-			3,530 €		1	Farnell	3,530	1	3,530	10	Farnell	2,740	10	27,400	2,740
74	1	RN114-4/02	RN114-4-02	2,912	1	CAF-3.1-1.2	1,820	1	3,640 €	2		TME	1,820	2	3,640	20	TME	1,560	20	31,200	3,120
75	1	470uH	DR74-471-R	0,977	5	DE0704-470	0,254	5	0,254 €		1	TME	0,254	1	0,254	10	TME	0,254	10	2,540	0,254
76	1	33uH - 7443551331				-			5,940 €		2	Mouser	2,970	2	5,940	20	Mouser	2,860	20	57,200	5,720
77	2	IHLP2020CZER3R3M11	IHLP2020CZER3R3M01	1,518	5	-			4,120 €		4	Mouser	1,030	4	4,120	40	Mouser	0,869	40	34,760	3,476
78	3	2u2																			
	1	2u2																			
			LQH32PN2R2N N0L	0,273	10	DLJ3015-2.2	0,271	5	1,855 €		7	Mouser	0,265	10	2,650	70	Mouser	0,214	100	21,400	2,140
79	1	100uH	SRU1048-101Y	0,756	1	DE1205-100	0,299	5	0,299 €		1	Digikey	0,720	1	0,720	10	Digikey	0,675	10	6,750	0,675
80	1	TFT_320QVT	M20-7832046	3,027	5	ZL262-40DG	0,329	2	0,329 €	1		TME	0,329	2	0,658	10	TME	0,284	10	2,843	0,284
81	2	HSMG-C170	HSMG-C170	0,206	50	HSMG-C170	0,095	5	0,120 €		2	Mouser	0,060	2	0,120	20	TME	0,056	20	1,120	0,112
82	5	HSMH-C170	HSMH-C170	0,188	25	HSMH-C170	0,057	10	0,287 €		5	Mouser	0,060	5	0,300	50	TME	0,052	50	2,585	0,259
83	1	HSMD-C170	HSMD-C170	0,231	25	HSMD-C170	0,059	10	0,059 €		1	Mouser	0,060	1	0,060	10	TME	0,059	10	0,586	0,059
84	4	HSMY-C170																			

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
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#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
	1	HSMY-C170	0805 Yellow	LED1	Power board	2									
						6	5790876	HSMY-C170	0,330	5	HSMY-C170	0,440	HSMY-C170	0,060	486-0519
85	1	10K/Beta:3570K	0805	NTC1	Power board	2	1612623	NTCS0805E3103J MT	0,413	1	NTCS0805E3103 JMT	0,250	NTCS0805E3103 JMT	0,145	697-4601
86	1	MOC3052	SMD; SDIP-6	OK1	AUX PS	1	2453236	MOC3052SM	0,884	1	MOC3052SM	0,910	MOC3052SM	0,750	761-3690
87	1	MOC3062	SMD; SDIP-6	OK2	AUX PS	1	2322554	MOC3062SR2VM	0,977	1	MOC3062SM	1,110	MOC3062SM	0,924	806-6064
88	1	HCPL-181	SOIC-4	OK3	Arduino Shield	1	1244525	HCPL-181-000E	0,342	1	HCPL-181-000E	0,560	HCPL-181-000E	0,150	693-5277
89	1	IRFR5305	TO-252	Q1	Power board	2	8649820	IRFR5305PBF	0,994	1	IRFR5305PBF-ND	0,810	942-IRFR5305PBF	0,805	543-2496
		Option #1: SPD30P06P	TO-252	Q1	Power board	0	2480881	SPD30P06P G	0,980	1	SPD30P06P GCT-ND	1,030	726-SPD30P06PG	1,020	898-6864
		Option #2: SUD19P06-60	TO-252	Q1	Power board	0	2101465	SUD19P06-60-GE3	1,590	5	SUD19P06-60-GE3	0,950	SUD19P06-60-GE3	1,070	-
90	5	MMBT5551	SOT-23	Q12, Q13, Q16, Q18, Q19	Power board	10	1459109	MMBT5551LT1G	0,167	5	MMBT5551LT1G	0,180	MMBT5551LT1G	0,163	545-0400
91	1	BSS84P	SOT-23	Q14	Power board	2	1056526	BSS84P H6327	0,110	5	BSS84PH6433X TMA1	0,180	BSS84PH6433X TMA1	0,177	653-2288
92	4	MMBT5401	SOT-23	Q2, Q10, Q11, Q17	Power board	8	1459108	MMBT5401LT1G	0,167	10	MMBT5401LT1G	0,180	MMBT5401LT1G	0,163	545-0393
93	2	BTA26-600	THT	Q20, Q21	AUX PS	2	1057286	BTA26-600BRG	2,840	1	BTA26-600BRG	2,930	BTA26-600BRG	3,110	714-0515
94	1	IRLL014N	SOT-223	Q22	AUX PS	1	8651183	IRLL014NPBF	0,539	1	IRLL014NTRPBF	0,580	IRLL014NTRPBF	0,561	302-000
95	5	IRLML2246TRPBF	SOT-23	Q23, Q24, Q25, Q26, Q28	Arduino Shield	5	1888166	IRLML2246TRPBF	0,287	1	IRLML2246TRPB F	0,400	IRLML2246TRPB F	0,389	760-4432
96	3	2N7002	SOT-23	Q27, Q29, Q30	Arduino Shield	3									
	2	2N7002	SOT-23	Q3, Q15	Power board	4									
						7	1713823	2N7002-7-F	0,135	5	2N7002LT1G	0,130	2N7002LT1G	0,118	545-0012
97	1	IRFP250N	THT, solder on bottom layer!	Q4	Power board	2	8649260	IRFP250NPBF	2,080	1	IRFP250NPBF	1,870	IRFP250NPBF	1,870	541-0042
98	1	BC857C	SOT-23	Q5	Power board	2	8734771	BC857C,215	0,022	10	BC857CLT1G	0,120	BC857CLT1G	0,109	690-0105
99	1	BC846C	SOT-23	Q6	Power board	2	2453325	BC846CMTF	0,055	5	BC846CMTF	0,150	BC846CMTF	0,146	761-3509
100	2	BCP56-16.115	SOT-223	Q7, Q9	Power board	4	1081258	BCP56-16,115	0,256	5	BCP56-16T1G	0,360	BCP56-16,115	0,340	773-7633
101	1	IRFR5410	TO-252	Q8	Power board	2	2468040	IRFR5410TRPBF	1,050	1	IRFR5410PBF	0,850	IRFR5410PBF	0,842	784-0303
102	3	0R	0805	R3, R21, R57	Power board	6									
	2	0R	0805	JP1, JP2	Power board	4									
	5	0R	0805	JP4, JP5, JP6, JP7, JP8	Arduino Shield	5									
						15	9233750	RC0805JR-070RL	0,010	10	RC2012J000CS	0,014	RC0805JR-070RL	0,012	679-0800
103	4	100K 1%	0805	R11, R14, R77, R79	Power board	8									
	2	100K 1%	0805	R143, R154	Arduino Shield	2									
						10	2352619	RCV0805100KFKE A	0,080	10	RC0805FR-07100KL	0,019	RC0805FR-07100KL	0,015	223-0691
104	2	100K 0.1%	0805	R49, R59	Power board	4	1577686	ERA6AEB104V	0,205	5	RT0805BRD0710 OKL	0,350	CPF0805B100KE	0,095	666-2673
105	1	100R 1%	0805	R127	AUX PS	1									
	1	100R 1%	0805	R164	Arduino Shield	1									
	3	100R 1%	0805	R5, R6, R43	Power board	6									
						8	9332375	MC01W08051100R	0,002	10	RC0805FR-07100RL	0,019	RC0805FR-07100RL	0,015	679-0807

RS Components					TME								Price calculation for 1 set				Price calculation for 10 sets					
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy	
	1	HSMY-C170																				
			HSMY-C170	0,248	25	HSMY-C170	0,060	10	0,360 €		6	Mouser	0,060	6	0,360	60	TME	0,054	60	3,240	0,324	
85	1	10K/Beta:3570K	NB12K00103JB B	0,392	5	NTCS0805E3103JMT	0,190	5	0,290 €		2	Mouser	0,145	2	0,290	20	Mouser	0,145	30	4,350	0,435	
86	1	MOC3052	MOC3052SM	0,739	5	MOC3052SR2VM	0,380	2	0,380 €		1	Mouser	0,750	1	0,750	10	TME	0,340	10	3,400	0,340	
87	1	MOC3062	MOC3062SM	0,718	10	MOC3062XSM	0,410	1	0,410 €		1	TME	0,410	1	0,410	10	TME	0,370	10	3,700	0,370	
88	1	HCPL-181	HCPL-181-000E	0,343	10	HCPL-181-000E	0,250	2	0,150 €		1	Mouser	0,150	1	0,150	10	Mouser	0,144	10	1,440	0,144	
89	1	IRFR5305	IRFR5305PBF	0,994	1	IRFR5305PBF	0,540	1	1,080 €		2	TME	0,540	2	1,080	20	TME	0,370	20	7,400	0,740	
		Option #1: SPD30P06P	SPD30P06P G	0,861	1	SPD30P06PGBTMA1	0,780	1														
		Option #2: SUD19P06-60				-																
90	5	MMBT5551	MMBT5551LT1G	0,129	10	MMBT5551	0,020	25	0,204 €		10	TME	0,020	25	0,500	100	TME	0,020	120	2,340	0,234	
91	1	BSS84P	BSS84P	0,157	10	BSS84P	0,048	10	0,096 €		2	Mouser	0,177	2	0,354	20	TME	0,048	30	1,440	0,144	
92	4	MMBT5401	MMBT5401LT1G	0,151	10	MMBT5401	0,021	25	0,164 €		8	TME	0,021	25	0,525	80	TME	0,019	100	1,890	0,189	
93	2	BTA26-600	BTA26-600BRG	3,038	1	BTA26-600BRG	2,540	1	5,080 €	2		TME	2,540	2	5,080	20	TME	2,370	20	47,400	4,740	
94	1	IRLL014N	IRLL014NPBF	0,552	5	IRLL014NPBF	0,214	3	0,214 €		1	Mouser	0,561	1	0,561	10	TME	0,204	10	2,040	0,204	
95	5	IRLML2246TRPBF	IRLML2246TRP BF	0,322	5	IRLML2246TRPBF	0,100	5	0,500 €		5	TME	0,100	5	0,500	50	TME	0,090	60	5,400	0,540	
96	3	2N7002																				
	2	2N7002																				
			2N7002LT1G	0,108	50	2N7002LT1G	0,019	25	0,133 €		7	TME	0,019	25	0,475	70	TME	0,014	100	1,400	0,140	
97	1	IRFP250N	IRFP250NPBF	2,100	1	IRFP250NPBF	1,060	1	2,120 €	2		TME	1,060	2	2,120	20	TME	0,900	20	18,000	1,800	
98	1	BC857C	BC857CLT1G	0,102	25	BC857C-DIO	0,020	25	0,040 €		2	Mouser	0,109	2	0,218	20	TME	0,020	30	0,600	0,060	
99	1	BC846C	BC846CMTF	0,048	100	BC846C-DIO	0,019	25	0,038 €		2	Mouser	0,146	2	0,292	20	TME	0,019	30	0,576	0,058	
100	2	BCP56-16.115	BCP56-16T3G	0,242	10	BCP56-16.115	0,106	5	0,424 €		4	Mouser	0,340	4	1,360	40	TME	0,069	50	3,460	0,346	
101	1	IRFR5410	IRFR5410PBF	0,977	5	IRFR5410PBF	0,550	1	1,100 €		2	TME	0,550	2	1,100	20	TME	0,390	20	7,800	0,780	
102	3	0R																				
	2	0R																				
	5	0R																				
			CRCW08050000 Z0EA	0,020	50	SMD0805-0R	0,006	100	0,090 €		15	Mouser	0,012	15	0,180	150	TME	0,006	200	1,200	0,120	
103	4	100K 1%																				
	2	100K 1%																				
			CRG0805F100K	0,007	50	SMD0805-100K-1%	0,008	100	0,070 €		10	Mouser	0,015	10	0,150	100	RS	0,007	150	1,050	0,105	
104	2	100K 0.1%	CPF0805B100K E	0,112	5	RN73C2A100KBTDF	0,513	2	0,380 €		4	Mouser	0,095	4	0,380	40	RS	0,109	50	5,450	0,545	
105	1	100R 1%																				
	1	100R 1%																				
	3	100R 1%																				
			CRCW0805100 RFKEA	0,031	50	RC0805FR-07100R	0,008	100	0,016 €		8	Farnell	0,002	10	0,020	80	Farnell	0,002	100	0,200	0,020	

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
Project source code at <https://github.com/eez-open>

#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
106	3	10K 1%	0805	R124, R125, R131	AUX PS	3									
	5	10K 1%	0805	R147, R153, R157, R170, R172	Arduino Shield	5									
	16	10K 1%	0805	R9, R10, R22, R23, R29, R45, R52, R54, R61, R75, R76, R78, R86, R98, R99, R106	Power board	32									
						40	9237755	RC0805FR-0710KL	0,011	10	RC0805FR-0710KL	0,019	RC0805FR-0710KL	0,015	223-0562
107	1	10R 1%	1206	R120	AUX PS	1									
	1	10R 1%	1206	R151	Arduino Shield	1									
	3	10R 1%	1206	R8, R18, R85	Power board	6									
						8	9236643	RC1206FR-0710RL	0,017	10	RC1206FR-0710RL	0,029	RC1206FR-0710RL	0,022	740-9085
108	1	12K4 1%	0805	R152	Arduino Shield	1	2141850	MC01W0805112K4	0,002	10	RC0805FR-0712K4L	0,090	RC0805FR-0712K4L	0,091	679-0863
	1	18-22R / 7W	THT, RM 5mm, radial, max. Height 40 mm	R107	AUX PS	1	1687978	SQM7-22RJI	0,474	1	SQMW722RJ	0,590	280-PRM7-20-RC	0,378	199-8087
109	2	16K 1%	0805	R118, R123	AUX PS	2									
	2	16K 1%	0805	R25, R36	Power board	4									
						6	9332677	MC01W0805116K	0,002	10	RC0805FR-0716KL	0,019	RC0805FR-0716KL	0,015	679-0920
110	4	180R 1%	0805	R142, R155, R156, R158	Arduino Shield	4	2447583	MCWR08X1800FT L	0,006	10	RC0805FR-07180RL	0,019	RC0805FR-07180RL	0,015	223-0326
	2	180R 0.1%	0805	R63, R73	Power board	4	1577596	ERA3AEB181V	0,185	10	RT0805BRD0718 ORL	0,350	RG2012P-181-B-T5	0,485	666-2459
111	1	1K 1%	0805	R129	AUX PS	1									
	2	1K 1%	0805	R167, R168	Arduino Shield	2									
	6	1K 1%	0805	R4, R33, R41, R74, R82, R95	Power board	12									
						15	1099800	WCR0805-1K0FI	0,018	10	RC0805FR-071KL	0,019	RC0805FR-071KL	0,015	223-0427
112	1	1K8 1%	0805	R126	AUX PS	1									
	2	1K8 1%	0805	R28, R56	Power board	4									
	2	1K8 1%	0805	R138, R159	Arduino Shield	2									
						7	2447595	MCWR08X1801FT L	0,006	10	RC0805FR-071K8L	0,019	RC0805FR-071K8L	0,015	679-1033
113	4	1R 1%	0805	R136, R140, Rout1, Rout2	Arduino Shield	4	2141629	MC01W080511R0	0,002	10	RC0805FR-071RL	0,090	RC0805FR-071RL	0,091	721-5631
	2	20K 0.1%	0805	R50, R60	Power board	4	1575937	MCTC0525B2002T 5E	0,513	10	RT0805BRD0720 KL	0,350	CPF0805B20KE	0,143	666-2626
114	9	220R 1%	0805	R38, R39, R42, R48, R58, R80, R81, R83, R84	Power board	18									
	2	220R 1%	0805	R114, R117	AUX PS	2									
						20	1099795	WCR0805-220RFI	0,024	10	RC0805FR-07220RL	0,019	RC0805FR-07220RL	0,015	223-0332
115	4	2K2 1%	0805	R110, R111, R119, R12	AUX PS	4									

RS Components						TME							Price calculation for 1 set				Price calculation for 10 sets					
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy	
106	3	10K 1%																				
	5	10K 1%																				
	16	10K 1%																				
			CRG0805F10K	0,021	50	RC0805FR-0710K	0,008	100	0,308 €		40	Farnell	0,011	40	0,440	400	Mouser	0,005	500	2,500	0,250	
107																						
	1	10R 1%																				
	1	10R 1%																				
	3	10R 1%																				
			CR1206-FX-10R0ELF	0,028	50	CRCW120610R0FKTA BC	0,014	100	0,110 €		8	Farnell	0,017	10	0,170	80	Mouser	0,008	100	0,800	0,080	
108	1	12K4 1%	CRCW080512K4FKEA	0,008	50	-			0,002 €		1	Farnell	0,002	10	0,020	10	Farnell	0,002	20	0,046	0,005	
109	1	18-22R / 7W	SQMW722RJ	0,725	5	-			0,378 €		1	Farnell	0,474	1	0,474	10	Farnell	0,474	10	4,740	0,474	
110	2	16K 1%																				
	2	16K 1%																				
			CRCW080516K0FKEA	0,014	50	SMD0805-16K-1%	0,008	100	0,012 €		6	Farnell	0,002	10	0,020	60	Farnell	0,002	100	0,200	0,020	
111	4	180R 1%	CRG0805F180R	0,006	50	SMD0805-180R-1%	0,008	100	0,024 €		4	Farnell	0,006	10	0,064	40	Farnell	0,006	50	0,320	0,032	
112	2	180R 0.1%	CPF0805B180RE	0,274	5	-			0,740 €		4	RS	0,274	5	1,370	40	Farnell	0,185	50	9,250	0,925	
113	1	1K 1%																				
	2	1K 1%																				
	6	1K 1%																				
			CRG0805F1K0	0,013	50	RC0805FR-071K	0,008	100	0,116 €		15	Mouser	0,015	15	0,225	150	TME	0,008	200	1,540	0,154	
114																						
	1	1K8 1%																				
	2	1K8 1%																				
	2	1K8 1%																				
			CRCW08051K80FKEA	0,011	50	SMD0805-1K8-1%	0,008	100	0,044 €		7	Farnell	0,006	10	0,063	70	Farnell	0,006	100	0,630	0,063	
115	4	1R 1%	ERJ6BQF1R0V	0,246	5	RC0805FR-071R	0,009	100	0,009 €		4	Farnell	0,002	10	0,022	40	Farnell	0,002	50	0,110	0,011	
116	2	20K 0.1%	CPF0805B20KE	0,157	5	TC0525B2002T1E	0,107	10	0,428 €		4	Mouser	0,143	4	0,572	40	TME	0,107	50	5,345	0,535	
117	9	220R 1%																				
	2	220R 1%																				
			CRG0805F220R	0,024	50	RC0805FR-07220R	0,007	100	0,143 €		20	Mouser	0,015	20	0,300	200	Mouser	0,005	250	1,250	0,125	
118	4	2K2 1%																				

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
Project source code at <https://github.com/eez-open>

#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
	11	2K2 1%	0805	R17, R32, R34, R35, R37, R46, R62, R65, R68, R94, R96	Power board	22									
						26	9237534	RC0805FR-072K2L	0,011	10	RC0805FR-072K2L	0,019	RC0805FR-072K2L	0,015	679-1207
119	2	2K37 0.1%	0805	R64, R72	Power board	4	1575834	MCTC0525B2371T5E	0,447	10	ERA-6AEB2371V	0,570	RT0805BRD072K37L	0,311	-
120	1	2R2 5% / 2W	2512	R31	Power board	2	1376975	RC2512JK-7W2R2L	0,557	10	CRM2512-JW-2R2ELF	0,320	CRM2512-JW-2R2ELF	0,341	720-3231
121	1	330K 1%	0805	R12	Power board	2	9333070	MC01W08051330K	0,002	10	RC0805FR-07330KL	0,090	RC0805FR-07330KL	0,091	679-1272
122	2	330R 1%	0805	R87, R105	Power board	4	9333037	MC01W08051330R	0,002	10	RC0805FR-07330RL	0,090	RC0805FR-07330RL	0,091	740-9022
123	4	330R 5% / 2W	2512	R108, R109, R112, R115	AUX PS	4	1265196	3520330RJT	0,122	10	RHC2512FT330R	0,760	3521330RFT	0,580	755-1224
124	3	470R 1%	0805	R20, R40, R53	Power board	6	1099798	WCR0805-470RFI	0,024	10	RC0805FR-07470RL	0,019	RC0805FR-07470RL	0,015	223-0376
125	1	47K 1%	0805	R128	AUX PS	1									
	2	47K 1%	0805	R162, R163	Arduino Shield	2									
	7	47K 1%	0805	R7, R16, R19, R89, R90, R91, R103	Power board	14									
						17	2447664	MCWR08X4702FTL	0,006	10	RC0805FR-0747KL	0,019	RC0805FR-0747KL	0,015	679-1434
126	4	49R9 1%	0805	R146, R148, R149, R150	Arduino Shield	4									
	2	49R9 1%	0805	R113, R116,	AUX PS	2									
						6	2141727	MC01W0805149R9	0,002	10	RC0805FR-0749R9L	0,019	RC0805FR-0749R9L	0,015	679-1462
127	9	4K7 1%	0805	R134, R135, R137, R139, R141, R144, R145, R169, R171	Arduino Shield	9									
	2	4K7 1%	0805	R15, R102	Power board	4									
						13	9333266	MC01W080514K7	0,002	10	RC0805FR-074K7L	0,019	RC0805FR-074K7L	0,015	223-0528
128	2	51K 1%	0805	R24, R51	Power board	4	9334653	MC01W0805551K	0,015	10	RC0805FR-0751KL	0,019	RC0805FR-0751KL	0,015	679-1525
129	4	51R 0.1%	0805	R66, R67, R70, R71	Power board	8	1670210	ERA6AEB510V	0,312	10	RG2012P-510-B-T5	0,273	RG2012P-510-B-T5	0,200	666-2411
130	3	5K1 1%	0805	R27, R88, R101	Power board	6									
	2	5K1 1%	0805	R165, R166	Arduino Shield	2									
						8	9333320	MC01W080515K1	0,002	10	RC0805FR-075K1L	0,019	RC0805FR-075K1L	0,015	679-1569
131	2	5K6 1%	0805	R121, R130	AUX PS	2									
	4	5K6 1%	0805	R26, R92, R97, R104	Power board	8									
						10	2447693	MCWR08X5601FTL	0,006	10	RC0805FR-075K6L	0,019	RC0805FR-075K6L	0,015	679-1572
132	5	750R 1%	0805	R47, R93, R100	Power board	10									
	2	750R 1%	0805	R160, R161	Arduino Shield	2									
						12	9333525	MC01W08051750R	0,002	10	RC0805FR-07750RL	0,019	RC0805FR-07750RL	0,015	679-1660

RS Components						TME						Price calculation for 1 set				Price calculation for 10 sets					
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy
11	2K2	1%																			
			CRCW08052K20FKEA	0,027	50	SMD0805-2K2-1%	0,008	100	0,210 €		26	Farnell	0,011	30	0,330	260	Mouser	0,005	300	1,500	0,150
119	2	2K37	0.1%			-			1,244 €		4	Mouser	0,311	5	1,555	40	Mouser	0,193	50	9,650	0,965
120	1	2R2	5% / 2W	CRM2512-JW-2R2ELF	0,406	5	WF25P-2R2-5%	0,042	50	0,084 €	2	Digikey	0,320	2	0,640	20	Mouser	0,152	20	3,040	0,304
121	1	330K	1%	CRCW0805330KFKEA	0,024	50	RC0805FR-07330K	0,007	100	0,004 €	2	Farnell	0,002	10	0,020	20	Farnell	0,002	30	0,060	0,006
122	2	330R	1%	CR0805-FX-3300GLF	0,025	50	RC0805FR-07330R	0,007	100	0,008 €	4	Farnell	0,002	10	0,020	40	Farnell	0,002	50	0,100	0,010
123	4	330R	5% / 2W	3521330RFT	0,182	10	WF25P-330R-5%	0,042	50	0,168 €	4	Farnell	0,122	10	1,220	40	TME	0,042	50	2,095	0,210
124	3	470R	1%	CRG0805F470R	0,024	50	RC0805FR-07470R	0,007	100	0,044 €	6	Mouser	0,015	10	0,150	60	Mouser	0,005	100	0,500	0,050
125	1	47K	1%																		
	2	47K	1%																		
	7	47K	1%																		
			CRCW080547K0FKEA	0,010	50	RC0805FR-0747K	0,007	100	0,107 €		17	Farnell	0,006	20	0,120	170	Mouser	0,005	200	1,000	0,100
126	4	49R9	1%																		
	2	49R9	1%																		
			CRCW080549R9FKEA	0,011	50	RC0805FR-0749R9	0,007	100	0,012 €		6	Farnell	0,002	10	0,020	60	Farnell	0,002	100	0,200	0,020
127	9	4K7	1%																		
	2	4K7	1%																		
			CRG0805F4K7	0,011	50	RC0805FR-074K7	0,008	100	0,026 €		13	Farnell	0,002	20	0,040	130	Farnell	0,002	150	0,300	0,030
128	2	51K	1%	CRCW080551K0FKEA	0,020	50	RC0805FR-0751K	0,006	100	0,024 €	4	Mouser	0,015	10	0,150	40	Mouser	0,015	50	0,750	0,075
129	4	51R	0.1%	CPF0805B51RE	0,540	5	-		1,600 €		8	Mouser	0,200	10	2,000	80	Mouser	0,100	100	10,000	1,000
130	3	5K1	1%																		
	2	5K1	1%																		
			CRCW08055K10FKEA	0,027	50	RC0805FR-075K1	0,007	100	0,017 €		8	Farnell	0,002	10	0,020	80	Farnell	0,002	100	0,200	0,020
131	2	5K6	1%																		
	4	5K6	1%																		
			CRCW08055K60FKEA	0,021	50	SMD0805-5K6-1%	0,008	100	0,063 €		10	Farnell	0,006	10	0,060	100	Farnell	0,006	120	0,720	0,072
132	5	750R	1%																		
	2	750R	1%																		
			CRCW0805750RFKEA	0,010	50	CRCW0805750RFKTA BC	0,012	100			12	Farnell	0,002	20	0,040	120	Farnell	0,002	140	0,280	0,028

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
Project source code at <https://github.com/eez-open>

#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
133	2	7K5 0.1%	0805	R44, R55	Power board	4	1670239	ERA6AEB752V	0,312	10	RT0805BRD077 K5L	0,350	RT0805BRD077 K5L	0,357	666-2588
134	1	R010 1% / 2W	2512, 2W	R2	Power board	2	1435947	CRA2512-FZ- R010ELF	0,484	10	CRA2512-FZ- R010ELF	0,540	CRA2512-FZ- R010ELF	0,568	693-4381
135	1	R020 1% / 2W	2512, 2W	R69	Power board	2	2079436	LRMAM2512- R02FT4	0,250	10	CRA2512-FZ- R020ELF	0,540	CRA2512-FZ- R020ELF	0,568	693-4384
136	1	R080 1% / 3W	2512, 3W	R30	Power board	2	1435951	CRA2512-FZ- R080ELF	0,669	10	CRA2512-FZ- R080ELF	0,540	CRA2512-FZ- R080ELF	0,568	693-4390
137	2	4x10K 5%	1206; resistor array	RN1, RN2	Arduino Shield	2	1770137	CAY16-103J4LF	0,110	10	CAY16-103J4LF	0,090	CAY16-103J4LF	0,095	522-5585
138	1	LD-BZEN-0903	THT	SP1 Buzzer	Arduino Shield	1	-	-	-	-	-	-	TE092703-6	2,200	-
139	1	A101SYCQ04	THT	SW1	Arduino Shield	1	2292959	A101SYCQ04	2,760	1	A101SYCQ04	3,000	A101SYCQ04	2,640	710-9788
140	1	1301.9316	SMD; tactile switch	SW2	Arduino Shield	1	1217765	1301.9316	0,302	1	FSM6JSMA	0,210	1301.9316	0,270	718-2443
141	1	820uH Dual Coil	SMD; 7.6mm x 7.6mm	TR1	Power board	2	1852832	SRF0703-821M	0,893	1	SRF0703-821M	0,720	SRF0703-821M	0,758	-
142	1	VTX-214-005-112	THT	TR2	AUX PS	1	2401044	VTX-214-005-112	8,120	1	-	-	-	-	792-4372
143	1	39-30-3035	THT 4,2mm 3pin	X1	Power board	2	9963545	39303035	0,914	1	39-30-3035	0,800	39-30-3035	0,603	670-5849
144	1	2411-01	THT, solder on bottom layer!	X11 USB Connector	AUX PS	1	1177884	2411-01	1,050	1	952-1767-ND	0,730	710- 61400413321	1,200	-
145	1	MC000006	THT, solder on bottom layer!	X12 Front Treminal	Arduino Shield	1	2007972	MC000006	1,900	1	-	-	-	-	-
146	2	TSW-113-07-F-D	THT; 2x13-pin header	X13, X15	Arduino Shield	2	2025182	TSW-113-07-F-D	2,240	5	TSW-113-07-L-D	2,470	710- 61302621121	1,410	-
147	1	MC000005	THT, solder on bottom layer!	X14 Front Treminal	Arduino Shield	1	2007971	MC000005	1,640	1	-	-	-	-	-
148	1	22-23-2021	THT	X17 Optional TEMP	Arduino Shield	1	1462926	22-23-2021	0,100	1	22-23-2021	0,140	22-23-2021	0,141	679-5583
149	1	MC34753	THT	X18	Arduino Shield	1	1593431	MC34753	0,422	10	M20-9750846	0,230	710- 61300811021	0,670	828-1673
150	1	22-23-2041	THT	X19 Optional Encoder	Arduino Shield	1	1462920	22-23-2041	0,165	10	22-23-2041	0,240	22-23-2041	0,217	679-5596
151	1	SSW-113-02-T-D-RA	THT; 2x13-pin socket	X3	Power board	2	1805583	SSW-113-02-G-D- RA	5,700	2	SSW-113-02-G- D-RA	5,340	-	-	-
152	1	39-30-3055	THT 4,2mm 5pin	X4 AC In	AUX PS	1	9963561	39303055	0,530	1	39-30-3055	1,180	39-30-3055	0,923	670-5861
153	1	09185107324	THT; 2x5-pin header	X5	AUX PS	1	-	-	-	-	-	-	-	-	-
	1	09185107324	THT; 2x5-pin header	X16	Arduino Shield	1	-	-	-	-	-	-	-	-	-
						2	1096985	09 18 510 7324	1,220	1	09185107324	1,460	09185107324	1,460	740-7108
154	1	22-23-2031	THT	X6 FAN Connector	AUX PS	1	1462950	22-23-2031	0,081	1	22-23-2031	0,210	22-23-2031	0,198	679-5587
155	1	LMJ2138814SOL1T1C	THT, solder on bottom layer!	X7 RJ45 Connector	AUX PS	1	-	-	-	-	-	-	-	-	-
156	1	826629-8	THT 8-Pin Header	X8	AUX PS	1	-	-	-	-	-	-	-	-	-
	6	826629-8	THT 8-Pin Header	MCU-ADCL, MCU-ADCH, MCU- COMM, MCU-PWML, MCU- PWMH	Arduino Shield	5	-	-	-	-	-	-	-	-	-
						6	1022256	M20-9990845	0,117	10	M20-9990845	0,240	M20-9990845	0,317	681-2997
157	1	826629-5	THT 5-Pin Header	X9	AUX PS	1	2452473	826629-5	0,631	50	826629-5	0,660	M20-9990545	0,217	681-2981
158	1	32,768kHz	THT	Y1	Arduino Shield	1	1611828	AB38T-32.768KHZ	0,185	1	AB38T- 32.768KHZ	0,150	AB38T- 32.768KHZ	0,155	226-1443
159	1	25MHz	SMD, 11.5mm x 4.7mm	Y2	Arduino Shield	1	2467741	ABLS-25.000MHZ- B4-F-T	0,393	1	ABLS- 25.000MHZ-B4- F-T	0,240	ABLS-25.0M-F-T	0,260	814-9550
160	2	SMAJ18A	DO-214AC	ZD10, ZD11	Arduino Shield	2	1749305	SMAJ18A-TR	0,070	10	SMA6J18A-TR	0,340	SMA6J18A-TR	0,407	795-9268

EEZ PSU H24005 BOM (r5B9, 2016-09-29)
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RS Components						TME			Price calculation for 1 set					Price calculation for 10 sets							
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy
133	2	7K5 0.1%	CPF0805B7K5E	0,280	5	RN73C2A7K5BTDF	0,520	2	1,120 €		4	RS	0,280	5	1,400	40	Mouser	0,217	50	10,850	1,085
134	1	R010 1% / 2W	CRA2512-FZ-R010ELF	0,515	5	WW25RR010FTL	0,189	5	0,378 €		2	TME	0,189	5	0,945	20	TME	0,189	20	3,780	0,378
135	1	R020 1% / 2W	CRA2512-FZ-R020ELF	0,507	5	WW25NR020FTL	0,189	5	0,378 €		2	TME	0,189	5	0,945	20	TME	0,189	20	3,780	0,378
136	1	R080 1% / 3W	CRA2512-FZ-R080ELF	0,327	5	-			0,654 €		2	RS	0,327	5	1,635	20	RS	0,327	20	6,540	0,654
137	2	4x10K 5%	CAY16-103J4LF	0,020	50	DR1206-10K-4/8	0,007	100	0,013 €		2	Digikey	0,090	2	0,180	20	Digikey	0,045	20	0,900	0,090
138	1	LD-BZEN-0903				LD-BZEN-0903	0,504	3	0,504 €	1		TME	0,504	3	1,512	10	TME	0,398	10	3,980	0,398
139	1	A101SYCQ04	A101SYCQ04	2,576	1	-			2,576 €	1		RS	2,576	1	2,576	10	RS	2,576	10	25,760	2,576
140	1	1301.9316	FSM6JSMATR	0,818	5	1301.9316	0,220	5	0,210 €		1	Digikey	0,210	1	0,210	10	TME	0,210	10	2,100	0,210
141	1	820uH Dual Coil				-			1,440 €		2	Digikey	0,720	2	1,440	20	Digikey	0,675	20	13,500	1,350
142	1	VTX-214-005-112	Myrra 47154	10,140	1	-			8,120 €	1		Farnell	8,120	1	8,120	10	Farnell	7,350	10	73,500	7,350
143	1	39-30-3035	39-30-3035	0,969	5	MX-5569-03A4	0,476	1	0,952 €	2		TME	0,476	2	0,952	20	TME	0,476	20	9,520	0,952
144	1	2411-01				2411-01	0,660	1	0,660 €	1		TME	0,660	1	0,660	10	TME	0,590	10	5,900	0,590
145	1	MC000006				-			1,900 €	1		Farnell	1,900	1	1,900	10	Farnell	1,900	10	19,000	1,900
146	2	TSW-113-07-F-D				-			2,820 €	2		Mouser	1,410	2	2,820	20	Mouser	1,180	20	23,600	2,360
147	1	MC000005				-			1,640 €	1		Farnell	1,640	1	1,640	10	Farnell	1,640	10	16,400	1,640
148	1	22-23-2021	22-23-2021	0,087	10	MX-22-23-2021	0,070	10	0,070 €	1		Farnell	0,100	1	0,100	10	TME	0,070	10	0,700	0,070
149	1	MC34753	61300811021	0,759	5					1		Digikey	0,230	1	0,230	10	Digikey	0,209	10	2,090	0,209
150	1	22-23-2041	22-23-2041	0,197	10	MX-22-23-2041	0,106	5	0,106 €	1		Mouser	0,217	1	0,217	10	TME	0,106	10	1,060	0,106
151	1	SSW-113-02-T-D-RA				ZL263-26DG	0,399	2	0,798 €	2		TME	0,399	2	0,798	20	TME	0,347	20	6,942	0,694
152	1	39-30-3055	39-30-3055	0,563	5	-			0,530 €	1		Farnell	0,530	1	0,530	10	Farnell	0,530	10	5,300	0,530
153	1	09185107324																			
	1	09185107324																			
			09185107324	1,442	1	T821-1-10-S1	0,290	2		2		TME	0,290	2	0,580	20	TME	0,290	20	5,800	0,580
154	1	22-23-2031	22-23-2031	0,083	10	MX-22-23-2031	0,080	10	0,080 €	1		Farnell	0,081	1	0,081	10	TME	0,080	10	0,800	0,080
155	1	LMJ2138814SOL1T1C				RJ45-TRAFO-LP	2,820	1	2,820 €	1		TME	2,820	1	2,820	10	TME	2,540	10	25,400	2,540
156	1	826629-8																			
	6	826629-8																			
			M20-9990845	0,125	10	ZL201-08G	0,065	10		7		TME	0,065	10	0,650	70	TME	0,065	70	4,550	0,455
157	1	826629-5	M20-9990545	0,160	10	ZL201-05G	0,032	25	0,032 €	1		Mouser	0,217	1	0,217	10	Mouser	0,155	10	1,550	0,155
158	1	32,768kHz	LFXTAL002995	0,532	1	32.768K-TC38	0,144	5	0,144 €	1		Digikey	0,150	1	0,150	10	Digikey	0,130	10	1,300	0,130
159	1	25MHz	QCS25.0000F18 B23R	0,217	10	25.00M-SMDHC49S	0,373	2	0,217 €		1	Digikey	0,240	1	0,240	10	Digikey	0,203	10	2,030	0,203
160	2	SMAJ18A	SMA6J18A-TR	0,112	25	P4SMAJ18A-DIO	0,105	5	0,140 €		2	TME	0,105	5	0,525	20	Farnell	0,070	20	1,400	0,140

#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	
161	1	BZX384-C4V3	SOD-323	ZD12	Arduino Shield	1	8735697	BZX384-C4V3	0,182	5	MM3Z4V3T1G	0,130	BZX384-C4V3,115	0,110	508-696
162	1	BZX384-C15.115	SOD-323	ZD4	Power board	2	8735506	BZX384-C15	0,182	5	MM3Z15VT1G	0,130	MM3Z15VT1G	0,118	802-4568
163	1	PDZ6.2B	SOD-323	ZD5	Power board	2	1757863	PDZ6.2B,115	0,266	5	MM3Z6V2T1G	0,130	MM3Z6V2T1G	0,118	725-8247
164	2	P4SMAJ48A	DO-214AC	ZD8, ZD9	Arduino Shield	2	1749310	SMAJ48A-TR	0,264	1	SMAJ48A-TR	0,340	SMAJ48A-TR	0,340	687-3286
AUX PS 230 V protection															
165	1	CG2-470L	THT	SAR1	AUX PS	1	1846854	2027-47-BLF	1,850	1	2027-47-BLF	1,270	2027-47-BLF	1,340	878-3652
166	2	S20K250	THT	VAR1, VAR2	AUX PS	2	1004357	B72220S0251K101	0,650	1	B72220S0251K101	0,850	B72220S0251K101	0,936	289-7301
167	2	1.5KE400CA	THT	ZD6, ZD7	AUX PS	2	2341650	1.5KE400CARL	0,777	1	1.5KE400CA-TP	0,560	1.5KE400CA-TP	0,549	486-4381
Not installed															
5	100n	0603		C99, C100, C101, C102, C103	AUX PS	5	-								
1	1u	1206		C14	Power board	2	-								
2	100n	0805		C15, C19	Power board	4	-								
1	n.c.	0805		C39	Power board	2	-								
2	2m2	THT, Ø18mm, solder on bottom layer!		C4, C5	Power board	4	-								
4	STPS15H100	TO-252		D1, D2, D3, D4	Power board	8	-								
2	60R@100MHz	0603		FB5, FB6	AUX PS	2	-								
2	S1751-46R	0805		GND, SW	Power board	4	-								
1	TPD4E002DRLR			IC17	AUX PS	1	-								
1	TPD2E001DZDR			IC18	AUX PS	1	-								
1	ADUM3160BRWZ			IC19	AUX PS	1	-								
1	826926-2	THT		JP3	Arduino Shield	1	-								
1	0R	0805		R13	Power board	2	-								
1	12K	1208		R1	Power board	2	-								
2	22R	0805		R132, R133	AUX PS	2	-								
1	NRF24L01 module	THT		WIFI	Arduino Shield	1	-								
1	826629-5	THT		X10	AUX PS	1	-								
1	282836-2	THT		X2	Power board	2	-								
1	SSW-105-02-S-D	THT		X20	Arduino Shield	1	-								
2	n.c.			ZD1, ZD2	Power board	4	-								
1	See Note 3.2			ZD3	Power board	2	-								
Power module AC input option															
2	2200uF 63V	THT, solder on bottom layer!		C4, C5	Power board	4	1822562	UVR1J222MHD	2,540	1	UVR1H222MHD	1,680	UVR1H222MHD	1,710	862-3229
	Option #1: UVZ1H222MHD	THT, solder on bottom layer!		C4, C5	Power board	0	1822570	UVZ1H222MHD	2,420	1	UVZ1H222MHD	1,500	UVZ1H222MHD	1,690	845-4755
	Option #2: UVZ1J222MHD	THT, solder on bottom layer!		C4, C5	Power board	0	1822575	UVZ1J222MHD	2,420	1	UVZ1J222MHD	2,210	UVZ1J222MHD	2,780	862-1759
4	STPS15H100	TO-252		D1, D2, D3, D4	Power board	8	2344052	STPS15H100CB-TR	1,070	1	STPS15H100CB	0,900	STPS15H100CB	0,896	795-9075
1	12K 1%	1206		R1	Power board	2	1100220	WCR1206-12KFI	0,026	10	RC1206FR-0712KL	0,090	RC1206FR-0712KL	0,091	223-2401
1	282836-2	THT, Terminal Block		X2	Power board	2	3089034	282836-2	0,452	1	282836-2	0,830	282836-2	0,385	361-7667
1	INDEL TST450/014	-		Transformer: toroidal; 450VA; 230VAC; 2x40V; 2x5.62A; 4kg	Enclosure	1	-				VPT100-5000	81,040	VPM100-5000	129,850	

RS Components						TME									Price calculation for 1 set				Price calculation for 10 sets					
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy			
161	1	BZX384-C4V3	BZX384-C4V3	0,013	100	BZT52C4V3-DIO	0,019	25	0,013 €		1	Mouser	0,110	1	0,110	10	TME	0,019	25	0,475	0,048			
162	1	BZX384-C15.115	MM3Z15VST1G	0,013	200	BZX384-C15.115	0,019	25	0,026 €		2	Mouser	0,118	2	0,236	20	TME	0,019	25	0,475	0,048			
163	1	PDZ6.2B	PDZ6.2B,115	0,014	100	PDZ6.2B	0,019	25	0,028 €		2	Mouser	0,118	2	0,236	20	TME	0,019	25	0,475	0,048			
164	2	P4SMAJ48A	SMAJ48A	0,098	25	P4SMAJ48A-DIO	0,102	5	0,196 €		2	Farnell	0,264	2	0,528	20	TME	0,102	20	2,040	0,204			
									75							212,383					1652,003	165,200		
AUX PS 230 V protection																								
165	1	CG2-470L	CG2-470L	2,279	10	CG2-470L	1,450	1	1,270 €	1		Digikey	1,270	1	1,270	10	Mouser	1,000	10	10,000	1,000			
166	2	S20K250	B72220S0251K101	0,745	5	SIOV-S20K250	0,524	1	1,048 €	2		TME	0,524	2	1,048	20	TME	0,333	20	6,660	0,666			
167	2	1.5KE400CA	1.5KE400CA	0,781	5	1.5KE400CA	0,256	3	0,512 €	2		TME	0,256	3	0,768	20	TME	0,238	25	5,950	0,595			
									3,00 €	49	699											3,086	22,610	2,261
Not installed																								
5	100n					-					5													
1	1u					-					2													
2	100n					-					4													
1	n.c.					-					2													
2	2m2					-					4													
4	STPS15H100					-					8													
2	60R@100MHz					-																		
2	S1751-46R					-					4													
1	TPD4E002DRLR					-					1													
1	TPD2E001DZDR					-					1													
1	ADUM3160BRWZ					-					1													
1	826926-2					-					1													
1	0R					-					2													
1	12K					-					2													
2	22R					-					2													
1	NRF24L01 module					-					1													
1	826629-5					-					1													
1	282836-2					-					2													
1	SSW-105-02-S-D					-					1													
2	n.c.					-					4													
1	See Note 3.2					-					2													
Power module AC input																								
2	2200uF 63V		UVR1H222MHD	2,156	1	UVR1H222MHD	1,100	1	4,400 €															
	Option #1: UVZ1H222MHD		UVZ1H222MHD	1,218	5	UVZ1H222MHD	0,973	1																
	Option #2: UVZ1J222MHD		UVZ1J222MHD	2,814	1	UVZ1J222MHD	1,593	1		4		TME	1,593	4	6,372	40	TME	0,939	50	46,950	4,695			
4	STPS15H100		STPS15H100CB-TR	0,924	5	-			7,168 €	8		Mouser	0,896	8	7,168	80	Mouser	0,592	100	59,200	5,920			
1	12K 1%		CRG1206F12K	0,008	50	RC1206JR-0712K	0,006	100	0,013 €	2		Digikey	0,090	2	0,180	20	Farnell	0,021	20	0,420	0,042			
1	282836-2		282836-2	0,414	5	282836-2	0,280	2	0,560 €	2		TME	0,280	2	0,560	20	TME	0,280	20	5,600	0,560			
1	INDEL TST450/014					TST450/014	36,500	1	36,500 €	1		TME	36,500	1	36,500	10	TME	32,140	10	321,400	32,140			

							Farnell / Element14				Digi-Key		Mouser		
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	Code
Other															
2		BS-244DSM-R	Binding post 4mm, red	J1, J4	Arduino Shield	2	1815818	TP1 RED	3,100	1	CT2232-2	3,690	164-4205	2,220	738-351
1		BS-244DSM-G	Binding post 4mm, green	J2	Arduino Shield	1	1815820	TP1 GREEN	3,190	1	CT2232-5	3,690	164-4204	2,220	738-389
2		BS-244DSM-B	Binding post 4mm, black	J3, J5	Arduino Shield	2	1815819	TP1 BLACK	3,330	1	CT2232-0	3,690	164-4201	2,220	738-345
1		39-01-4030	Receptacle for X1		Power board	2	9963480	39-01-4030	0,219	1	39-01-4030	0,300	39-01-4030	0,292	510-9685
1		39-01-4050	Receptacle for X4		AUX PS	1	9963502	39-01-4050	0,327	1	39-01-4050	0,360	39-01-4050	0,358	510-9708
1		22-01-2035	Receptacle for X6		AUX PS	1	143127	22-01-2035	0,192	10	22-01-2035	0,310	22-01-2035	0,290	296-4940
3		39-00-0078	Pins for X1		Power board	6									
5		39-00-0078	Pins for X4		AUX PS	5									
						11	9732675	39-00-0078 100pc	13,300	1	39-00-0078	0,144	39-00-0078	0,112	215-5887
3		08-50-0114	Pins for X6		AUX PS	3	2063734	08-50-0114	0,030	10	08-50-0114	0,170	08-50-0114	0,141	172-9178
1		MEAN WELL LRS-150-48	Power module 48VDC; 3.3A (adjustable to 54VDC)		Power board	2	-				-		LRS-150-48	23,980	-
1		TFF-M3X40/DR124	40 mm metal spacer, M3 (a pair is required for dual channel)		Power board	2	-								-
0		Heatsink 70 x 120 mm	(Heatsink included with Varisom enclosure)		Power board	0	-				-		-		-
4		Screwed spacer sleeve; M3; 6 mm	Dremec 213x6		Power board	8	-								
1		12V fan 60x60mm			Enclosure	1	-				-		-		-
4		Screwed spacer sleeve; hexagonal	14 mm, M3		AUX PS	4	1466812	05.03.143	0,397	4					-
1		Schurter 4304.6090	C14 IEC inlet, switch, 2 fuse drawer is included		Enclosure	1	2080294	4304.6090	9,960	1	4304.6090	12,230	4304.6090	9,630	867-7308
1		Arduino Due			Arduino Shield	1	2250861	A000062	40,660	1					769-7412
1		3.2" TFT LCD			Arduino Shield	1	-								
2		NSR-08	Plug; female; PIN:8 w/o terminals for Ethernet cable		Arduino Shield	2	865667	M20-1060800	0,228	10	M20-1060800	0,320	M20-1060800	0,250	681-2834
1		NSR-05	Plug; female; PIN:5 w/o terminals for USB cable		Arduino Shield	1	865631	M20-1060500	0,533	10	M20-1060500	0,220	M20-1060500	0,208	681-2828
21		NDR-T	Contact; female; 28+22AWG; NSR/NDR; tinned		Arduino Shield	21	1022220	M20-1180046 100pc	5,330	1	M20-1180046	0,130	M20-1180046 100pc	6,290	681-2887
9		Screwed spacer sleeve; M5; 8mm; brass	Extend binding post for PCB mounting		Arduino Shield	9	-								
4		Spacer sleeve; 5mm; cylindrical; brass	5 mm between TFT display and front panel		Arduino Shield	4	1733405	D01475	0,106	10					
4		Screwed spacer sleeve; hexagonal; polyamide; M3	11 mm between TFT display and PCB		Arduino Shield	4	2494576	05.03.111	0,332	10					
4		Plastic washer; round; M3			Arduino Shield	4	-								
12		Light pipe for LED	Round; Ø3mm; Front: convex; straight		Arduino Shield	12	2293496	PLP2-500	0,824	1	PLP2-500	0,658	PLP2-500	0,515	713-4728
1		130106	Ring terminal; M5; 1+2.5mm2		AUX PS	1	970682	130106 / 100pc	16,960	1	130106-ND	0,240	571-130106	0,207	224-9651
1		FC10300-0	Ribbon cable with IDC connectors, 30cm		Arduino Shield	1	-								
1		Custom enclosure			Enclosure	1	-								
1		PCB+PCBA			Enclosure	1	-								

RS Components						TME			Price calculation for 1 set					Price calculation for 10 sets								
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy	
50,780																433,570						43,357
Other																						
2		BS-244DSM-R	930103101	3,136	1	BS-244DSM-R	1,160	1	2,320 €	-		TME	1,160	2	2,320	20	TME	1,090	20	21,800	2,180	
1		BS-244DSM-G	930103104	3,542	1	BS-244DSM-G	1,160	1	1,160 €	-		TME	1,160	1	1,160	10	TME	1,090	10	10,900	1,090	
2		BS-244DSM-B	930103100	3,136	1	BS-244DSM-B	1,160	1	2,320 €	-		TME	1,160	2	2,320	20	TME	1,090	20	21,800	2,180	
1		39-01-4030	39-01-4030	0,232	5	MX-5557-03R2	0,132	5	0,264 €	-		Farnell	0,219	2	0,438	20	TME	0,132	20	2,640	0,264	
1		39-01-4050	39-01-4050	0,188	5	MX-5557-05R2	0,240	2	0,188 €	-		Farnell	0,327	1	0,327	10	RS	0,188	10	1,880	0,188	
1		22-01-2035	22-01-2035	0,204	5	MX-6471-031	0,050	10	0,050 €	-		Mouser	0,290	1	0,290	10	TME	0,050	10	0,504	0,050	
3		39-00-0078							0,000 €													
5		39-00-0078							0,000 €													
			39-00-0078 100pc	14,100	1	MX-5556-T3L	0,074	10	0,816 €	-		TME	0,074	20	1,484	110	TME	0,069	150	10,320	1,032	
3		08-50-0114	08-50-0114	0,085	100	MX-0850-0114	0,047	10	0,090 €	-		Farnell	0,030	10	0,300	30	Farnell	0,030	40	1,200	0,120	
1		MEAN WELL LRS-150-48				LRS-150-48	17,990	1	35,980 €	-		TME	17,990		0,000	20	TME	15,860		0,000	0,000	
1		TFF-M3X40/DR124				TFF-M3X40/DR124	0,156	10	0,312 €	-		TME	0,156	10	1,560	20	TME	0,156	20	3,120	0,312	
0		Heatsink 70 x 120 mm				RAD-A4463/120	1,370	1	0,000 €	-					0,000					0,000	0,000	
4		Screwed spacer sleeve; M3; 6 mm				TFM-M3X6/DR213	0,089	10	0,713 €	-		TME	0,089	10	0,890	80	TME	0,073	100	7,290	0,729	
1		12V fan 60x60mm				MB60251V1-G99	4,110	1	4,110 €	-		TME	4,110	1	4,110	10	TME	3,600	10	36,000	3,600	
4		Screwed spacer sleeve; hexagonal				B3X14/BN3320	0,309	10	1,238 €	-		TME	0,309	10	3,094	40	TME	0,309	40	12,376	1,238	
1		Schurter 4304.6090	4304.6090	10,000	1	4304.6090	5,190	1	5,190 €	-		TME	5,190	1	5,190	10	TME	4,670	10	46,700	4,670	
1		Arduino Due	A000062	33,680	1	Itead/Eckstein	19,480		19,480 €	-												
1		3.2" TFT LCD				Itead/Eckstein	12,140		12,140 €	-												
2		NSR-08	M20-1060800	0,204	10	NSR-08	0,088	10	0,175 €			Mouser	0,250	2	0,500	20	TME	0,088	20	1,760	0,176	
1		NSR-05	M20-1060500	0,136	10	NSR-05	0,027	20	0,027 €			Mouser	0,208	1	0,208	10	TME	0,027	20	0,535	0,054	
21		NDR-T	M20-1180046	0,070	100	NDR-T	0,027	25	0,566 €			TME	0,027	25	0,675	210	TME	0,015	250	3,750	0,375	
9		Screwed spacer sleeve; M5; 8mm; brass				TFM-M5X8/DR218	0,200	10	1,798 €			TME	0,200	10	2,000	90	TME	0,179	90	16,110	1,611	
4		Spacer sleeve; 5mm; cylindrical; brass				DR316/3.2X5	0,057	10	0,228 €			TME	0,057	10	0,570	40	TME	0,057	40	2,280	0,228	
4		Screwed spacer sleeve; hexagonal; polyamide; M3				-	0,128		0,512 €			Farnell	0,332	10	3,320	40	Farnell	0,332	40	13,280	1,328	
4		Plastic washer; round; M3				B3/BN1074	0,008	100	0,032 €			TME	0,008	100	0,790	40	TME	0,008	100	0,790	0,079	
12		Light pipe for LED	PLP2-500	0,809	5	PLP2-625	0,490	5	5,884 €			TME	0,490	15	7,350	120	TME	0,385	125	48,100	4,810	
1		130106	130106	0,265	100	130106	0,162	5	0,162 €	-		Mouser	0,207	1	0,207	10	TME	0,162	10	1,624	0,162	
1		FC10300-0				FC10300-0	1,040	1	1,040 €	-		TME	1,040	1	1,040	10	TME	0,880	10	8,800	0,880	
1		Custom enclosure				Varisom (Qty of 10)	43,000		43,000 €	-												
1		PCB+PCBA				?			0,000 €	-												

#	Qty	Part name	Package	Reference designator	Board name	Qty	Farnell / Element14				Digi-Key		Mouser		Code
							Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	Part Number	Unit price €	

All prices are net prices (without VAT)

Please note that this BOM does *not* contain ordering number for parts on reels or that which include re-reeling fee (e.g. Farnell). TME does not offer regularly parts on reels.

Changes (2016-09-29):

Q1 IRR5305 promoted to main choice due to its characteristics and price

Changes (2016-09-25):

C1, C2, C3 100n to 4n7 200V X7R
C47, C51 1n to 2n2 50V X7R / NP0

C105, C108, C110, C112 10n to 4n7 100-200V X7R
Q1 Added two alternatives
Rout1, Rout2 No place on PCB, has to be connected on output terminals with Cout1, Cout2 in series
Cout1, Cout2 See above

RS Components						TME						Price calculation for 1 set				Price calculation for 10 sets							
#	Qty	Part name	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	Combined	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €	Qty for 10 sets	Best Supplier	Best Line Price €	Order Qty	Line Cost for 10 set	Line Cost / Group Buy		
									153,65 €	0	0					40,143					273,559	27,356	
															Total	255,61						Total	194,82

Total cost includes components only
(DC Converter version)

Calculation does not include::

PCBs	20,00
TFT Display	15,00
Arduino	20,00
Enclosure	43,00
AC/DC PSU	36,00
	134,00