								Farnell / Elemen	t14	Digi-Ke	y	Mouse	r
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ	Part Number	Unit price MOQ	Part Number	Unit price MOQ
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
2	20	100n 16V X7R	0603	C11, C26, C30, C37, C42, C54, C55, C56, C60, C61, C62, C65, C69, C70, C73, C75, C79, C82, C83, C159	Power board	40							
		100n 16V X7R	0603	C91	AUX PS	1							
	26	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, C156	Arduino Shield	26							
						67	2496832	0603B104K160CT	0,012 10	0603YC104KAT2 A	0,010	06033C104K4T4 A	0,025
3	1	220u 16V	SMD ELCO; Ø6.3 x 7.7mm	C97	AUX PS	1	1870605	MCESL16V227M6 3X7.7	. 0,213 10	399-6679-1-ND	0,410 1	80- EDK227M016A9	0,407 1
4	2	10n 50V X7R	0805	C133, C146	Arduino Shield	2							
	6	10n 50V X7R	0805	C34, C45, C53, C58, C80, C84	Power board	12							
						14	1759246	MC0805B103K500 CT	0,009 10	CL21B103KBCN NNC	0,027	GRM216R71H10 3KA01D	0,014
5	2	10u 50V X7R	1210	C107, C125	Arduino Shield	2							
		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
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
7		10u 10V	1206, Tantalum	C144	Arduino Shield	1	1000112	LLL! K!V!OOK	0,100	LLLI IVI IOON	0,100	LLLI ICIV IOOIC	0,101
		10u 10V	1206, Tantalum	C67	Power board	2							
						3	1457413	T491A106K010AT	0,260 5	T491A106K010A T	0,340	T491A106K010A T	0,344
	2	120p 50V NP0	0805 / 0603	C21, C50	Power board	4	1414667	C000EC101 IECAC	0,044 10	CL 24C424 IDANI	0,058	C000EC121 IECA	0,031
8 9		18p 50V NP0	0805 / 0603	C131, C135	Arduino Shield		2320820	C0805C121J5GAC TU MC0805N180J101	,	CL21C121JBAN NNC CL21C180JBAN	0,090	C0805C121J5GA CTU C0805C180J5GA	·
J	_		33307 0000	3.31, 3100	ddino Onioid		_020020	CT	0,020 10	NNC	0,000	CTU	0,100
10	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
11	1	1u 100V X7R	1206, 100V	C10, C28, C31, C44	Power board	8							
"		1u 100V X7R	1206, 100V 1206, 100V	C104A, C109A	Arduino Shield	2							
	_	1000 7011	1200, 1000	0.10 11, 0.1001	7 II danie Omeia		2320876	MC1206B105K101 CT	0,200 5	CL31B105KCHN NNE	0,253	GRM31CR72A10 5KA01L	0,227
					_						- 15-		
12	6	1u 50V X7R	0805, 50V	C13, C57, C59, C68, C74, C76	Power board	12	2118131	C0805C105K5RAC TU	0,215 5	CL21B105KBFN NNE	0,129	08055C105K4T2 A	0,135
13	1	22n 50V X7R	0805	C130	Arduino Shield	1							
		22n 50V X7R	0805	C29	Power board	2							

				RS Componer	nts		TME	ource code at		,, g.c., a.			ice calcula	tion fo	r 1 set
					Unit price							Best		Order	
#	Qty	Part name	Code	Part Number	€	MOQ	Code / Part Number	Unit price €	MOQ	IHI	SMD	Supplier	Price €	Qty	Line Cost €
1	1	2x3-pin socket	681-6832	M20-7830346	0,899	5	ZL262-6DG	0,070	10	1		TME	0,070 €	1	0,070
2	20	100n 16V X7R													
	1	100n 16V X7R													
	26	100n 16V X7R													
			391-246	0603YC104JAT2	0,004	50	CL10B104KO8NNNC	0,004	100		67	RS	0,004 €	100	0,400
				A											
3	1	220u 16V	839-1770	865080345012	0,280	10	SC1C227M6L07KVR	0,061	10		1	TME	0,061 €	1	0,061
					-,			-,					-,		.,
4		10n 50V X7R													
	6	10n 50V X7R	461-4013	CC0805KRX7R9	0,007	50	CL21B103JBANNNC	0,006	100		14	TME	0,006 €	20	0,120
			401-4013	BB103	0,007	30	CL2 ID 1033DAINING	0,000	100		14	I IVIL	0,000 €	20	0,120
5		10u 50V X7R													
	3	10u 50V X7R	700 4044	CL 20D40CKD IN	0.004	40	CL 20D40CKD INNNE	0.004	10		0	TNAC	0.004.6	40	2.040
			766-1214	CL32B106KBJN NNE	0,601	10	CL32B106KBJNNNE	0,201	10		8	TME	0,201 €	10	2,010
6	1	10u 35V	708-3443	EEEFK1V100R	0,274	25	EEEFK1V100R	0,200	5		1	TME	0,200 €	1	0,200
7	1	10u 10V													
		10u 10V	538-2278	T491A106K010A	0,196	10	T491A106K010AT	0,085	10		3	TME	0,085€	3	0,254
			000 12.0	T	0,.00			0,000					0,000 0		0,20 :
_															
8	2	120p 50V NP0	723-6209	GRM2165C1H1 21JA01D	0,035	100	CL21C121JBANNNP	0,007	100		4	TME	0,007 €	10	0,069
9	2	18p 50V NP0	648-0935	C0805C180J5G	0,157	10	CL21C180JBANNNC	0,071	100		2	Farnell	0,026 €	2	0,053
		·		ACTU											
10		1n 50V NP0 1n 50V NP0													
		III 50V INPO	378-710	0805CG102J9B	0,021	25	CL21C102JBCNNNC	0,010	100		7	TME	0,010 €	10	0,097
			0.0	В	0,02.	0	011 10 10 10 10 10 10 10 10 10 10 10 10	0,0.0			•		0,010 0		3,331
11		1u 100V X7R 1u 100V X7R													
	2	10 100V A/K	740-7590	C3216X7R2A10	0,174	10	GRM31CR72A105KA0	0,128	10		10	TME	0,128 €	10	1,279
				5K160AA	٥,		1L	0,.20					0,.20 0		.,2.0
12	6	1u 50V X7R	766-1062	CL21B105KBFN NNF	0,041	100	CL21B105KBFNNNG	0,014	100		12	TME	0,014 €	15	0,214
13	1	22n 50V X7R													
	1	22n 50V X7R													

								Farnell / Element	114		Digi-Ke	у	Mouse	r
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	MOQ	Part Number	Unit price MOQ	Part Number	Unit price MOQ
	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
14	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
15	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
16		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
17	5	3n3 50V X7R or NP0	0805 / 0603	C40, C71, C72, C77, C78	Power board	10								
	1	3n3 50V X7R or NP0	0805 / 0603	C95	AUX PS	1								
						11	1759291	MC0805B332K101 CT	0,015	10	CL21B332KBAN NNC	0,045	C0805C332K5R AC	0,024
18		470n 50V X7R	0805, 50V	C9, C25, C32	Power board	6								
	2	470n 50V X7R	0805, 50V	C104, C109	Arduino Shield	8	2470492	GRM21BR71H474 KA88L	0,163	5	CL21B474KBFN FNE	0,139	C0805C474K5R ACTU	0,103
19	1	470p 50V NP0	0805 / 0603	C23	Power board	2	1759217	MC0805N471J500 CT	0,023	10	CL21C471JBAN NNC	0,090	08055A471JAT2 A	0,091
20		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
21	1	47n 400V Polyester Film	THT R=7,5mm	C86	AUX PS	1	2468839	B32520E6473K000	0,358	1	-		-	
22	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
23		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
24	4	4n7 100V X7R	0805	C1, C2, C3, C22	Power board	8								
		4n7 100V X7R	0805		Arduino board									
						12	1759293	MC0805B472K101 CT	0,019	10	CL21B472KCAN NNC	0,065	GRM21AR72D47 2KW01D	0,050
25	1	4u7 10V	1206, Tantalum	C145	Arduino Shield	1								
23		4u7 10V	1206, Tantalum	C43	Power board	2							_	
			, randam	3.5	. ever board	3	1457428	T491A475K016AT	0,238	5	T491A475K010A T	0,310	T491A475K010A T	0,299

				RS Componer	nts		TME	urce code al					ice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price N	MOQ	Code / Part Number	Unit price €	MOQ	THT S	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
	2	22n 50V X7R	464-6701	08055C223KAT2 A	0,015	50	CL21B223KBANNNC	0,008	100		5	TME	0,008€	10	0,084
14	5	2n2 50V NP0	802-9905	C0805C222J5G ACTU	0,043	100	GRM2165C1H222JA0 1D	0,015	100		10	TME	0,015€	10	0,145
15	3	2u2 25V X7R	766-1031	CL21B225KAFN NNF	0,057	100	CL21B225KAFNNNG	0,027	50		6	TME	0,027 €	10	0,274
16	2	330p 50V NP0 330p 50V NP0		IVIVI											
			723-6271	GRM2165C1H3 31JA01D	0,042	100	CL21C331JBANNNC	0,014	100		5	TME	0,014 €	10	0,138
17	5	3n3 50V X7R or NP0													
	1	3n3 50V X7R or NP0	237-7009	GRM216R71H3	0,038	50	CL21B332KBANNNC	0,007	100		10	TME	0,007€	11	0,076
				32KA01D											
18	3	470n 50V X7R													
	2	470n 50V X7R	766-1053	CL21B474KBF4 PNG	0,085	50	CL21B474KBFNNNG	0,015	100		8	TME	0,015€	10	0,153
				FNG								Farnell			
19	1	470p 50V NP0	378-700	0805CG471J9B B	0,021	25	CL21C471JBANNNC	0,009	100		2	TME	0,009€	2	0,018
20	2	47n 50V X7R 47n 50V X7R													
	'	4711 30V X/IX	391-303	08055C473KAT2 A	0,011	50	CC0805KRX7R9473	0,008	100		3	TME	0,008€	3	0,025
21	1	47n 400V Polyester Film	668-9993	B32520C6473K1 89	0,241	10	-			1		RS	0,241 €	1	0,241
22	2	47p 50V NP0	264-4270	C0805C470J5G ACTU	0,014	25	CC0805JRNPO9470	0,007	100		4	TME	0,007€	10	0,074
23	1	47u 35V													
	2	47u 35V	565-623	EEEFK1V470AP	0,165	5	EEEFK1V470P	0,157	5		5	TME	0,157€	5	0,786
24	4	4n7 100V X7R													
2-7		4n7 100V X7R													
			698-3364	08051C472KAZ 2A	0,036	25	CL21B472KCANNNC	0,006	100		12	TME	0,006€	20	0,126
25	1	4u7 10V													
		4u7 10V	538-2341	T491A475K016A T	0,179	10	T491A475M010AT	0,128	5		3	TME	0,128 €	5	0,640
				•											

								Farnell / Element	14		Digi-Ke	у	Mouse	•
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	MOQ	Part Number	Unit price MOQ	Part Number	Unit price MOQ €
26	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
27	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
28	2	6n8 50V X7R or NP0	0603	C132, C134	Arduino Shield	2	1759100	MC0603B682K500 CT	0,007		CL10B682KB8N NNC	0,090	GRM188R71H68 2KA01J	0,091
29		6n8 (X1 / Y2) PP Film 300Vac 1000Vdc	THT R=10mm	C85	AUX PS	1	2478385	R413F16804000M	0,528		R413F16804000 M	0,520	R413F16804000 M	0,525
30	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
31		100u 63V	SMD ELCO; Ø10 x 10.2mm	C18	Power board	2	9696040	EEEFK1J101P	0,846		EEE-FK1J101P	0,930	EEE-FK1J101P	0,932
32	1	47u 63V	SMD ELCO; Ø8x10.2mm	C16	Power board	2	9696032	EEEFK1J470P	1,040	1	EEE-FK1J470P	0,880	EEE-FK1J470P	0,887
33	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
34	1	BAS316	SOD-323	D21	AUX PS	1								
	6	BAS316	SOD-323	D22, D23, D24, D25, D27, D33	Arduino Shield	6								
	9	BAS316	SOD-323	D6, D11, D12, D13, D14, D15, D16, D17, D18	Power board	18								
						25	8734275	BAS316,115	0,192	5	BAS316,115	0,175	BAS316,115	0,174
35	1	BAT54S	SOT-23	D28	Arduino Shield	1	1621835	BAT54S	0,125	10	BAT54SLT1G	0,150	BAT54SLT1G	0,145
36	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
37	1	SKL16	SOD-323	D20	AUX PS	1								
٠.		SKL16	SOD-323	D29	Arduino Shield	1								
		SKL16	SOD-323	D8, D9	Power board	4								
	_	ONLIG	000 020	50, 50	r ower board	6	8738025	PMEG4005AEA	0,104	5	PMEG4005AEA	0,325	PMEG4005AEA	0,286
38	1	STPS15H100	TO-252	D5	Power board	2	2344052	STPS15H100CB- TR	1,070	1	STPS15H100CB	0,900	STPS15H100CB	0,896
39	1	50mA, polyfuse	1210	F1	Arduino board	1	1861176	MC36203	0,163	5	507-1476-1-ND	0,200 1	530- 0ZCJ0005FF2E	0,101 1
40	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								
			0603 Ferrite Bead			8	1635704	742792602	0,210	1	742792602	0,210	742792602	0,160
41	1	LTC3864EMSE#PBF	MSOP-12	IC1	Power board	2	2293128	LTC3864EMSE#PB F	4,520	1	LTC3864EMSE# PBF	3,960	-	
42	1	REF5025AIDG4	SOIC-8	IC10	Power board	2	1439622	REF5025AIDG4	3,720	1	REF5025AIDR	2,990	REF5025AIDR	2,910
43	1	DAC8552IDGKTG4	MSOP-8 (VSSOP-8)	IC11	Power board	2	1329584	DAC8552IDGKTG4	6,420	1	DAC8552IDGKT	7,660	DAC8552IDGKR	6,510
44	1	ADG465BRTZ	SOT-23	IC12	Power board	2	2376952	ADG465BRTZ- REEL7	1,690	1	Discontinued		Discontinued	
45	1	TS5A9411DCKT	SC-70	IC13	Power board		1755582	TS5A9411DCKT	1,050	1	TS5A9411DCKR	0,560	TS5A9411DCKR	0,534
46		ADS1120IPWR	TSSOP-16	IC14	Power board	2	2402249	ADS1120IPWR	6,760		ADS1120IPWR	6,250	ADS1120IPWR	6,100
47	1	LP339D	SOIC-14	IC15	Power board	2	9589686	LP339D	0,573	1	LP339DR	0,520	LP339DR	0,498

				RS Componer	nts		TME	ource code a	t map o	g.c			rice calcula	tion fo	r 1 set
												Best	Best Line	Order	
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Supplier	Price €	Qty	Line Cost €
26	3	4u7 100V X7R	915-5415	CGA6M3X7S2A 475K200AB	0,686	5	-				6	RS	0,686 €	6	4,116
27	3	4u7 25V X7R	515-8508	GRM32ER71H4 75KA88L	0,608	10	CL32A475KAULNNE	0,119	10		3	TME	0,119€	3	0,358
28	2	6n8 50V X7R or NP0	147-825	C0603C682K5R ACTU	0,007	50	CL10B682JB8NNNC	0,004	100		2	TME	0,004 €	10	0,042
29	1	6n8 (X1 / Y2) PP Film 300Vac 1000Vdc	871-2489	890334023003C S	0,420	10	MKP-Y2-6N8	0,158	5	1		TME	0,158€	1	0,158
30	1	1F 5,5V Backup Cap	339-6843	EECS5R5H105	3,556	1	EECS5R5H105	2,190	1	1		TME	2,190 €	1	2,190
31	1	100u 63V	708-3623	EEEFK1J101P	0,641	5	EEEFK1J101P	0,380	5		2	TME	0,380 €	2	0,760
32	1	47u 63V	708-3614	EEEFK1J470P	0,784	5	EEEFK1J470P	0,456	1		2	TME	0,456 €	2	0,911
33	2	22u 50V	708-3598	EEEFK1J220P	0,255	5	EEEFK1J220P	0,260	5		2	RS	0,255 €	2	0,510
34	1	BAS316													
	6	BAS316													
	9	BAS316													
			397-2914	BAS316,115	0,195	50	BAS316,115	0,019	25		25	TME	0,019€	25	0,463
35	1	BAT54S	670-8797	BAT54S	0,202	10	BAT54S.215	0,017	50		1	TME	0,017€	1	0,017
36	1	DFLS1100-7			-, -			-,-					-,		.,.
	2	DFLS1100-7													
			708-2292	DFLS1100-7	0,392	25	-				5	Digikey	0,370 €	5	1,850
37	1	SKL16													
	1	SKL16													
	2	SKL16													
			485-729	PMEG4005AEA, 115	0,325	20	SKL16	0,095	5		6	TME	0,095€	10	0,952
38	1	STPS15H100	795-9075	STPS15H100CB -TR	0,924	5	-				2	Mouser	0,896 €	2	1,792
39	1	50mA, polyfuse	-				SM005-60	0,092	10		1	TME	0,092€	1	0,092
40	3	60R@100MHz													
70	1	60R@100MHz													
		60R@100MHz													
			669-4049	742792602	0,172	10	LCBA-600	0,027	25		8	TME	0,027 €	10	0,269
41	1	LTC3864EMSE#PBF	-				-				2	Digikey	3,960 €	2	7,920
42	1	REF5025AIDG4	404-304	REF5025AID	3,500	1	-				2	Mouser	2,910 €	2	5,820
43	1	DAC8552IDGKTG4	662-1498	DAC8552IDGKT	6,524	1	-				2	Farnell	6,420 €	2	12,840
44	1	ADG465BRTZ	-				-				2	Farnell	1,690 €	2	3,380
45	1	TS5A9411DCKT	459-459	TS5A9411DCKT	0,570	10	-				2	Mouser	0,534 €	2	1,068
46	1	ADS1120IPWR	-				-				2	Mouser	6,100 €	2	12,200
47		LP339D	661-2659	LP339DR	0.175	10	LP339D	0,244	3		2	RS	0,175 €		0,525
					2,			-,	-		_		2, 5 C	-	-,0

								Farnell / Element1	14		Digi-Key	1	Mouse	•
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	MOQ	Part Number	Unit price € MOQ	Part Number	Unit price MOQ €
48	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
49	1	MC79L05	SOIC-8	IC2	Power board	2	2323583	MC79L05ACD	0,428	1	MC79L05ACD	0,380	MC79L05ACD	0,371
50	1	TLC5925IDBQR	SSOP-24	IC20	Arduino Shield	1	1694438	TLC5925IDBQR	1,520	1	TLC5925IDBQR	1,370	TLC5925IDBQR	1,330
51	2	Si8641EC-B-IS1	SOIC-16	IC21, IC25	Arduino Shield	2	2423294	Si8641EC-B-IS1	3,210	1	Si8641EC-B-IS1	2,780	Si8641EC-B-IS1	2,720
52	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
53	1	LD1117ADT33TR	TO-252	IC24	Arduino Shield	1	1087169	LD1117DT33	0,358	5	LD1117ADT33TR	0,590	LD1117ADT33TR	0,570
54	1	PCA21125T/Q900/1,1	TSSOP-14	IC26	Arduino Shield	1	2400445	PCA21125T/Q900/ 1,1	1,870	1	PCA21125T/Q90 0/1,1	1,610	PCA21125T/Q90 0/1,1	1,660
55	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
56	1	W5500	LQFP-48	IC28	Arduino Shield	1	-				W5500	3,750	W5500	2,390
57	1	BC857BS	SOT-363	IC29	Arduino Shield	1	1653608	BC857BDW1T1G	0,141	1	BC857BDW1T1G	0,210	BC857BDW1T1G	0,199
58	1	MC78L05	SOIC-8	IC3	Power board	2	9593845	UA78L05ACDR	0,488	1	MC78L05ACD	0,360	MC78L05ACD	0,366
59		TLC555	SOIC-8	IC30	Arduino Shield	1	9589880	NE555DR	0,300	1	NE555D	0,350	NE555D	0,353
60		SN74LVC08APWR	SSOP-8	IC31	Arduino Shield	1	1102978	SN74LVC08APWR	0,236	1	296-1221-1-ND	0,350 1	595- SN74LVC08APW	0,335 1
61		TPS3705-33D	SOIC-8	IC32	Arduino Shield	1	2296066	TPS3705-33D	1,330	1	TPS3705-33DR	1,580	TPS3705-33D	1,840
62	1	SN74LV1T34DBVR	SOT-23	IC33	Arduino Shield	1	2499914	SN74LV1T34DBVR	0,457	1	SN74LV1T34DB VR	0,410	SN74LV1T34DB VR	0,398
63	1	SN74LVC2G02DCTR	SSOP-8	IC34	Arduino Shield	1	1236358	SN74LVC2G02DC TR	0,452	1	SN74LVC2G02D CTR	0,590	SN74LVC2G02D CTR	0,570
64	1	LM5574MTX/NOPB	TSSOP-16	IC4	Power board	2	2323534	LM5574MTX/NOPB	3,930	1	LM5574MTX/NO PB	3,430	LM5574MTX/NO PB	3,340
65		LP2951D	SOIC-8	IC5	Power board	2	1755066	LP2951D	0,573		LP2951DR	0,520	LP2951DR	0,498
66		TL072CD	SOIC-8	IC6, IC7	Power board	4	1467663	TL072CDT		5	TL072CDT	0,430	TL072CDT	0,416
67		OP27GSZ	SOIC-8	IC8	Power board	2	9426124	OP27GSZ	,	1	OP27GSZ	3,140	OP27GSZ	3,080
68		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
69	1	1-726388-2	THT	J6	Arduino board	1	2308760	1-726388-2	0,085	10	A121493-ND	0,210 1	571-1-726388-2	0,235 1
70		RT424005	THT	K_PAR, K_SER	Arduino Shield	2	9950168	G2RL-2 5DC	3,940	1	RTE24005	2,920	RTE24005	2,850
71		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
72		SK 145/37,5	THT Heatsink	KK1	AUX PS	1	4621414	SK 145/37,5 STS- 220	3,530	1	-		-	
73		RN114-4/02	THT, solder on bottom layer!		Power board	2	1191484	RN114-4-02	3,720	1	RN114-4/02	2,870	RN114-4/02	2,600
74	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
75		33uH - 7443551331	SMD; 13.2mm x 12.8mm	L2	Power board		2211631	Würth - 7443551331	3,070		7443551331	3,380	7443551331	2,970
			SMD; 5.49mm x 5.18mm	L3, L4	Power board		1741325	IHLP2020CZER3R 3M11	1,410	5	IHLP2020CZER3 R3M11	2,160	IHLP2020CZER3 R3M11	1,030
77	3		0805	L5, L6, L7	Power board	6								
	1	2u2	0805	L8	AUX PS	1								
						7	2215643	MLZ2012A2R2WT	0,118	10	445-3168-1-ND	0,110 1	810- MLZ2012A2R2M T	0,109 1

				RS Componer	nts		TME					Pı	ice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	тнт	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
48	1	LM25575MH/NOPB	288-774	LM25575MH/NO PB	4,060	1	-				1	Mouser	3,450 €	1	3,450
49	1	MC79L05	661-6131	MC79L05ACD	0,308	10	MC79L05ACD	0,202	3		2	TME	0,202€	3	0,606
50	1	TLC5925IDBQR	812-3984	TLC5925IDBQR	1,109	10	-				1	RS	1,109€	1	1,109
51	2	Si8641EC-B-IS1	753-2438	Out of stock			-				2	Mouser	2,720 €	2	5,440
52		SI8651EC-B-IS1	753-2497	Si8651EC-B-IS1	3,038	1	-				2	RS	3,038 €		6,076
53	1	LD1117ADT33TR	686-9123	LD1117ADT33T R	0,294	10	LD1117ADT33	0,315	3		1	RS	0,294 €	1	0,294
54	1	PCA21125T/Q900/1,1	-				-				1	Digikey	1,610 €	1	1,610
55	1	AT25256B	738-0079	AT25256B- SSHL-B	1,267	2	25AA256-I/SN	1,290	1		1	Farnell	1,190 €	1	1,190
56	1	W5500	-				W5500	2,190	1		1	TME	2,190 €	1	2,190
57	1	BC857BS	690-0101	BC857BDW1T1 G	0,022	25	BC857BS	0,027	25		1	RS	0,022€	1	0,022
58	1	MC78L05	688-9269	MC78L05ABDR 2G	0,245	2	MC78L05ABDG	0,165	3		2	TME	0,165€	3	0,495
59	1	TLC555	662-4006	TLC555CDR	0,218	10	TLC555CDR	0,384	3		1	RS	0,218€	1	0,218
60	1	SN74LVC08APWR	662-8588	SN74LVC08AP WR	0,240	10	-				1	Farnell	0,236 €	1	0,236
61	1	TPS3705-33D	662-3331	TPS3705-33D	0,528	5	-				1	RS	0,528 €	1	0,528
62	1	SN74LV1T34DBVR	-				-				1	Mouser	0,398 €	1	0,398
63	1	SN74LVC2G02DCTR	-				SN74LVC2G02DCTR	0,252	5		1	TME	0,252€	1	0,252
64	1	LM5574MTX/NOPB	288-960	LM5574MT/NOP B	3,948	1	LM5574MT	4,150	1		2	Mouser	3,340 €	2	6,680
65	1	LP2951D	796-8095	LP2951D	0,613	5	LP2951CM/NOPB	0,495	1		2	TME	0,495€	2	0,990
66	2	TL072CD	857-907P	TL072CD	0,252	1	TL072CD	0,164	3		4	TME	0,164 €	6	0,981
67	1	OP27GSZ	522-8304	OP27GSZ	3,024	1	OP27GSZ	1,550	1		2	TME	1,550 €	2	3,100
68	1	MCP23S08-E/SO	403-812	MCP23S08- E/SO	1,249	5	MCP23S08-E/SO	1,060	1		2	Digikey	0,960 €	2	1,920
69	1	1-726388-2	680-5772	1-726388-2	0,060	100	1-726388-2	0,082	10	1		RS	0,060 €	2	0,120
70	2	RT424005	198-6898	RTE24005	4,676	1	RT424005	1,260	1	2		TME	1,260 €	2	2,520
71	2	G6K-2F-5DC	683-9633	G6K2F5DC	4,928	1	G6K-2F-5DC	2,490	1		2	TME	2,490 €	2	4,980
72	1	SK 145/37,5	-				-			1		Farnell	3,530 €	1	3,530
73	1	RN114-4/02	525-3697	RN114-4-02	2,912	1	CAF-3.1-1.2	1,820	1	2		TME	1,820 €	2	3,640
74	1	470uH	770-1182	DR74-471-R	0,977	5	DE0704-470	0,254	5		1	TME	0,254 €	1	0,254
75	1	33uH - 7443551331	-				-				2	Mouser	2,970 €	2	5,940
76	2	IHLP2020CZER3R3M11	748-6912	IHLP2020CZER 3R3M01	1,518	5	-				4	Mouser	1,030 €	4	4,120
77	3	2u2													
••		2u2													
	·		604-1524	MLZ2012A2R2M T	0,083	10	-				7	RS	0,083€	10	0,830

								Farnell / Element	t14		Digi-Ke	у	Mouse	•
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	MOQ	Part Number	Unit price MOQ	Part Number	Unit price MOQ €
78	1	100uH	SMD, 12mm x 12mm	L9	AUX PS	1	2113014	SRU1038-101Y	1,010	1	SRU1038-101Y	0,720	652-SRU1038- 101Y	0,758
79	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
80	2	HSMG-C170	0805 Green	LED_O1, LED_O2	Arduino Shield	2	5790852	HSMG-C170	0,204	10	HSMG-C170	0,490	630-HSMG-C170	0,060
81	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	630-HSMH-C170	0,060
82	1	HSMD-C170	0805 Orange	LED_PWR	Arduino Shield	1	5790864	HSMD-C170	0,240	5	HSMD-C170	0,440	630-HSMD-C170	0,060
83	4	HSMY-C170	0805 Yellow	LED_CV1, LED_CV2, LED_S1, LED_S2	Arduino Shield	4								
	1	HSMY-C170	0805 Yellow	LED1	Power board	2								
						6	5790876	HSMY-C170	0,330	5	HSMY-C170	0,440	630-HSMY-C170	0,060
84	1	10K/Beta:3570K	0805	NTC1	Power board	2	1612623	NTCS0805E3103J MT	0,413	1	NTCS0805E3103 JMT	0,250	NTCS0805E3103 JMT	0,145
85	1	MOC3052	SMD; SDIP-6	OK1	AUX PS	1	2453236	MOC3052SM	0,884	1	MOC3052SM	0,910	MOC3052SM	0,750
86	1	MOC3062	SMD; SDIP-6	OK2	AUX PS	1	2322554	MOC3062SR2VM	0,977	1	MOC3062SM	1,110	MOC3062SM	0,924
87	2	HCPL-181	SOIC-4	OK3, OK4	Arduino Shield	2	1244525	HCPL-181-000E	0,342	1	HCPL-181-000E	0,560	HCPL-181-000E	0,150
88	2	IRFR5305	TO-252	Q1, Q8	Power board	4	8649820	IRFR5305PBF	0,994	1	IRFR5305PBF- ND	0,810	942- IRFR5305PBF	0,805
		Option #1: SPD30P06P	TO-252	Q1	Power board	0	2480881	SPD30P06P G	0,980	1	SPD30P06P GCT-ND	1,030	726- SPD30P06PG	1,020
		Option #2: SUD19P06-60	TO-252	Q1	Power board	0	2101465	SUD19P06-60-GE3	3 1,590	5	SUD19P06-60- GE3	0,950	SUD19P06-60- GE3	1,070
89		MMBT5551	SOT-23	Q12, Q13, Q16, Q18, Q19	Power board		1459109	MMBT5551LT1G	0,167		MMBT5551LT1G	0,180	MMBT5551LT1G	0,163
90	1	BSS84P	SOT-23	Q14	Power board	2	1056526	BSS84P H6327	0,110	5	BSS84PH6433X TMA1	0,180	BSS84PH6433X TMA1	0,177
91		MMBT5401	SOT-23	Q2, Q10, Q11, Q17	Power board		1459108	MMBT5401LT1G	0,167	10	MMBT5401LT1G	0,180	MMBT5401LT1G	0,163
92		BTA26-600	THT	Q20, Q21	AUX PS	2	1057286	BTA26-600BRG	2,840	1	BTA26-600BRG	2,930	BTA26-600BRG	3,110
93		IRLL014N	SOT-223	Q22	AUX PS		8651183	IRLL014NPBF	0,539	1	IRLL014NTRPBF	0,580	IRLL014NTRPBF	0,561
94		IRLML2246TRPBF	SOT-23	Q23, Q24, Q25, Q26, Q28	Arduino Shield	5	1888166	IRLML2246TRPBF	0,287	1	IRLML2246TRPB F	0,400	IRLML2246TRPB F	0,389
95		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
96	1	IRFP250N	THT, solder on bottom layer!	Q4	Power board	2	8649260	IRFP250NPBF	2,080	1	IRFP250NPBF	1,870	IRFP250NPBF	1,870
97	1	BC857C	SOT-23	Q5	Power board	2	8734771	BC857C,215	0,022	10	BC857CLT1G	0,120	BC857CLT1G	0,109
98		BCP56-16.115	SOT-223	Q7, Q9	Power board		1081258	BCP56-16,115	0,256		BCP56-16T1G	,	BCP56-16,115	0,340
99	7		0805	JP1, JP2, JP9, R3, R21, R57, R73	Power board	14								
	1	0R	0805	R173	AUX PS	1								
	5	0R	0805	JP4, JP5, JP6, JP7, JP8	Arduino Shield	5								
						20	9233750	RC0805JR-070RL	0,010	10	RC2012J000CS	0,014	RC0805JR-	0,012
													070RL	

	PS Components						Project so	ource code a	t nπps.	://githu	b.com/e	ez-open			
				RS Componer	nts		TME					Pi	rice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	ТНТ	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
78	1	100uH	122-9186	SRU1038-101Y	0,607	1	DE1205-100	0,299	5		1	TME	0,299€	1	0,299
79	1	TFT_320QVT	681-6851	M20-7832046	3,027	5	ZL262-40DG	0,329	2	1		TME	0,329€	2	0,658
80	2	HSMG-C170	435-6767	HSMG-C170	0,206	50	HSMG-C170	0,095	5		2	Mouser	0,060 €	2	0,120
81	5	HSMH-C170	486-0468	HSMH-C170	0,188	25	HSMH-C170	0,057	10		5	TME	0,057€	5	0,287
82	1	HSMD-C170	486-0525	HSMD-C170	0,231	25	HSMD-C170	0,059	10		1	TME	0,059€	1	0,059
83	4	HSMY-C170													
	1	HSMY-C170	486-0519	HSMY-C170	0,248	25	HSMY-C170	0,060	10		6	Mouser	0,060€	6	0,360
84	1	10K/Beta:3570K	697-4601	NB12K00103JB B	0,392	5	NTCS0805E3103JMT	0,190	5		2	Mouser	0,145€	2	0,290
85	1	MOC3052	761-3690	MOC3052SM	0,739	5	MOC3052SR2VM	0,380	2		1	TME	0,380€	1	0,380
86	1	MOC3062	806-6064	MOC3062SM	0,718	10	MOC3062XSM	0,410	1		1	TME	0,410€	1	0,410
87	2	HCPL-181	693-5277	HCPL-181-000E	0,343	10	HCPL-181-000E	0,250	2		2	Mouser	0,150 €	1	0,150
88	2	IRFR5305	543-2496	IRFR5305PBF	0,994	1	IRFR5305PBF	0,540	1		4	TME	0,540 €	2	1,080
		Option #1: SPD30P06P	898-6864	SPD30P06P G	0,861	1	SPD30P06PGBTMA1	0,780	1						
		Option #2: SUD19P06-60					-								
89	5	MMBT5551	545-0400	MMBT5551LT1G	0,129		MMBT5551	0,020	25		10	TME	0,020 €	25	0,510
90	1	BSS84P	653-2288	BSS84P	0,157		BSS84P	0,048	10		2	TME	0,048 €	2	0,096
91	4	MMBT5401	545-0393	MMBT5401LT1G	0,151		MMBT5401	0,021	25		8	TME	0,021 €	25	0,513
92	2	BTA26-600	714-0515	BTA26-600BRG	3,038		BTA26-600BRG	2,540	1	2	4	TME	2,540 €	2	5,080
93	1	IRLL014N	302-000	IRLL014NPBF	0,552		IRLL014NPBF	0,214	3		1	TME	0,214 €	1	0,214
94		IRLML2246TRPBF	760-4432	IRLML2246TRP BF	0,322	5	IRLML2246TRPBF	0,100	5		5	TME	0,100€	5	0,500
95		2N7002 2N7002													
	_	2141 002	545-0012	2N7002LT1G	0,108	50	2N7002LT1G	0,019	25		7	TME	0,019€	25	0,475
			010 0012	ZITI GOZZI TO	0,100	00	ZIVI GOZZI TO	0,010			•	1111	0,010 C	20	0,170
96	1	IRFP250N	541-0042	IRFP250NPBF	2,100	1	IRFP250NPBF	1,060	1	2		TME	1,060€	2	2,120
97	1	BC857C	690-0105	BC857CLT1G	0,102	25	BC857C-DIO	0,020	25		2	TME	0,020 €	2	0,040
98	2	BCP56-16.115	773-7633	BCP56-16T3G	0,242	10	BCP56-16.115	0,106	5		4	TME	0,106 €	4	0,424
99	7	0R													
	1	0R													
	5	0R													
			679-0800	CRCW08050000 Z0EA	0,020	50	SMD0805-0R	0,006	100		20	TME	0,006€	15	0,090
				_											

								Farnell / Element	:14		Digi-Ke	у	Mouse	r
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MC	DQ	Part Number	Unit price MOQ €	Part Number	Unit price MOQ
100		100K 1% 100K 1%	0805 0805	R11, R14, R77, R79 R143, R154	Power board Arduino Shield	8 2								
				·		10	2352619	RCV0805100KFKE A	0,080 1	0	RC0805FR- 07100KL	0,019	RC0805FR- 07100KL	0,015
101	2	100K 0.1%	0805	R49, R59	Power board	4	1577686	ERA6AEB104V	0,205	5	RT0805BRD0710 0KL	0,350	CPF0805B100KE	0,095
102	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 1	0	RC0805FR- 07100RL	0,019	RC0805FR- 07100RL	0,015
400	^	401/ 40/	0005	D405 D404	ALIV DO	^								
103		10K 1%	0805	R125, R131	AUX PS	2								
		10K 1%	0805	R147, R153, R157	Arduino Shield	3								
	17	10K 1%	0805	R9, R10, R22, R23, R29, R45, R52, R54, R61, R70, R75, R76, R78, R86, R98, R99, R106	Power board	34								
						39	9237755	RC0805FR-0710KL	0,011 1	0	RC0805FR- 0710KL	0,019	RC0805FR- 0710KL	0,015
104	1	10R 1%	1206	R120	AUX PS	1								
		10R 1%	1206	R151	Arduino Shield	1								
		10R 1%	1206	R8, R18, R85, R174	Power board	8								
						10	9236643	RC1206FR-0710RL	. 0,017 1	0	RC1206FR- 0710RL	0,029	RC1206FR- 0710RL	0,022
105	1	12K4 1%	0805	R152	Arduino Shield	1	2141850	MC01W0805112K4	0,002 1	0	RC0805FR- 0712K4L	0,090	RC0805FR- 0712K4L	0,091
106	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
107	2	16K 1%	0805	R118, R123	AUX PS	2								
	2	16K 1%	0805	R25, R36	Power board	4								
						6	9332677	MC01W0805116K	0,002 1	0	RC0805FR- 0716KL	0,019	RC0805FR- 0716KL	0,015
108	5	180R 1%	0805	R30, R142, R155, R156, R158	Arduino Shield	5	2447583	MCWR08X1800FT L	0,006 1	0	RC0805FR- 07180RL	0,019	RC0805FR- 07180RL	0,015
109		1K 1%	0805	R129	AUX PS	1								
		1K 1%	0805	R167, R168	Arduino Shield	2								
	6	1K 1%	0805	R4, R32, R41, R74, R82, R95	Power board	12								
						15	1099800	WCR0805-1K0FI	0,018 1		RC0805FR- 071KL	0,019	RC0805FR- 071KL	0,015
110	1	1K8 1%	0805	R126	AUX PS	1								
		1K8 1%	0805	R28, R56	Power board	4								
		1K8 1%	0805	R138, R159	Arduino Shield	2								
	_			,			2447595	MCWR08X1801FT L	0,006 1		RC0805FR- 071K8L	0,019	RC0805FR- 071K8L	0,015

							Project so	urce code at	nttps.	://githut	o.com/e	ez-open			
				RS Componer	nts		TME					Pi	rice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	тнт	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
100	4	100K 1%													
	2	100K 1%													
			223-0691	CRG0805F100K	0,007	50	SMD0805-100K-1%	0,008	100		10	RS	0,007€	10	0,070
101	2	100K 0.1%	666-2673	CPF0805B100K E	0,112	5	RN73C2A100KBTDF	0,513	2		4	Mouser	0,095€	4	0,380
102	1	100R 1%													
	1	100R 1%													
	3	100R 1%													
			679-0807	CRCW0805100 RFKEA	0,031	50	RC0805FR-07100R	0,008	100		8	Farnell	0,002€	10	0,020
103	2	10K 1%													
100		10K 1%													
	J	1010 170													
	17	10K 1%													
			223-0562	CRG0805F10K	0,021	50	RC0805FR-0710K	0,008	100		39	TME	0,008€	40	0,308
104		10R 1%													
		10R 1%													
	4	10R 1%													
			740-9085	CR1206-FX- 10R0ELF	0,028	50	CRCW120610R0FKTA BC	0,014	100		10	TME	0,014 €	10	0,137
105	1	12K4 1%	679-0863	CRCW080512K 4FKEA	0,008	50	-				1	Farnell	0,002€	10	0,023
106	1	18-22R / 7W	199-8087	SQMW722RJ	0,725	5	-			1		Mouser	0,378€	1	0,378
407	^	401/40/													
107		16K 1% 16K 1%													
	2	10K 176	679-0920	CRCW080516K 0FKEA	0,014	50	SMD0805-16K-1%	0,008	100		6	Farnell	0,002€	10	0,020
400	-	400D 40/	000 0000	00000554000	0.000	50	ONADOROF 400D 40/	0.000	400		-	E	0.000.6	40	0.000
108	5	180R 1%	223-0326	CRG0805F180R	0,006	50	SMD0805-180R-1%	0,008	100		5	Farnell	0,030 €	10	0,300
109	1	1K 1%													
		1K 1%													
	6	1K 1%													
			223-0427	CRG0805F1K0	0,013	50	RC0805FR-071K	0,008	100		15	TME	0,008 €	15	0,116
440	4	1K8 1%													
110		1K8 1% 1K8 1%													
		1K8 1%													
	2	INO 170	679-1033	CRCW08051K8 0FKEA	0,011	50	SMD0805-1K8-1%	0,008	100		7	Farnell	0,006€	10	0,063

								Farnell / Element	14		Digi-Ke	у		Mouse	r	
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	DQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
111	4	1R 1%	0805	R136, R136A, R140, R140A	Arduino Shield	4	2141629	MC01W080511R0	0,002 1		RC0805FR- 071RL	0,090		RC0805FR- 071RL	0,091	
112	2	22K 0.1%	0805	R50, R60	Power board	4	1653299	RR1220P-223-B-T5	5 0,330 1	-	RG20P22KBCT- ND	0,360	1	279- CPF0805B22KE1	0,162	! 1
113	10	220R 1%	0805	R38, R39, R42, R48, R58, R66, R80, R81, R83, R84	Power board	20										
	2	220R 1%	0805	R114, R117	AUX PS	2										
						22	1099795	WCR0805-220RFI	0,024 1		RC0805FR- 07220RL	0,019		RC0805FR- 07220RL	0,015	i
114	5	2K2 1%	0805	R110, R111, R119, R122, R124	AUX PS	5										
114		2K2 1%	0805	R17, R34, R35, R37, R46, R62, R65, R68, R94, R96	Power board	20										
						25	9237534	RC0805FR-072K2L	. 0,011 1		RC0805FR- 072K2L	0,019		RC0805FR- 072K2L	0,015	i
115	2	2K 0.1%	0805	R64, R72	Power board	4	1670231	ERA6AEB202V	0,259 1	0	P2.0KDACT-ND	0,370	1	667-ERA-	0,547	1
116		2R2 5% / 2W	2512	R31	Power board		1376975	RC2512JK-	0,259		CRM2512-JW-	0,320	'	6AEB202V CRM2512-JW-	0,341	
117	1	330K 1%	0805	R12	Power board		9333070	7W2R2L MC01W08051330K	·		2R2ELF RC0805FR-	0,090		2R2ELF RC0805FR-	0,091	
117	'	330K 170	0000	IXIZ	rowel boald	2	9333070	WC01W00031330K	. 0,002 1		07330KL	0,090		07330KL	0,091	
118	2	330R 1%	0805	R87, R105	Power board	4	9333037	MC01W08051330R	0,002 1		RC0805FR- 07330RL	0,090		RC0805FR- 07330RL	0,091	
119	4	330R 5% / 2W	2512	R108, R109, R112, R115	AUX PS	4	1265196	3520330RJT	0,122 1		RHC2512FT330R	0,760		3521330RFT	0,580	
120		470R 1%	0805	R20, R40, R53	Power board		1099798	WCR0805-470RFI	0,024 1		RC0805FR- 07470RL	0,019		RC0805FR- 07470RL	0,015	i
121		47K 1%	0805	R128	AUX PS	1										
		47K 1% 47K 1%	0805 0805	R162, R163 R7, R16, R19, R89, R90, R91, R103	Arduino Shield Power board	2 14										
						17	2447664	MCWR08X4702FT L	0,006 1		RC0805FR- 0747KL	0,019		RC0805FR- 0747KL	0,015	
	_															
122		4K7 1%	0805	R134, R135, R137, R139, R141, R144, R145	Arduino Shield	7										
	2	4K7 1%	0805	R15, R102	Power board	4	0000000	1400414/0005441/7	0.000 4	^	DOGGGED	0.040		DOGGGED	0.045	
						11	9333266	MC01W080514K7	0,002 1		RC0805FR- 074K7L	0,019		RC0805FR- 074K7L	0,015)
123	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 1		RC0805FR- 0749R9L	0,019		RC0805FR- 0749R9L	0,015	i
124	2	51K 1%	0805	R24, R51	Power board	4	9334653	MC01W0805551K	0,015 1		RC0805FR- 0751KL	0,019		RC0805FR- 0751KL	0,015	i
125	3	5K1 1%	0805	R27, R88, R101	Power board	6										
	2	5K1 1%	0805	R165, R166	Arduino Shield	2										
						8	9333320	MC01W080515K1	0,002 1		RC0805FR- 075K1L	0,019		RC0805FR- 075K1L	0,015	
							1									

				RS Componer	nts		TME			//gitriub.com/		rice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
111	4	1R 1%	721-5631	ERJ6BQF1R0V	0,246	5	RC0805FR-071R	0,009	100	4	Farnell	0,002 €	10	0,022
112	2	22K 0.1%	866-7349	CPF-A- 0805B22KE1	0,196	10	AR05BTCW2202	0,107	10	4	TME	0,107€	4	0,429
113	10	220R 1%												
	2	220R 1%												
			223-0332	CRG0805F220R	0,024	50	RC0805FR-07220R	0,007	100	22	TME	0,007 €	20	0,143
114	5	2K2 1%												
	10	2K2 1%												
			679-1207	CRCW08052K2 0FKEA	0,027	50	SMD0805-2K2-1%	0,008	100	25	TME	0,008€	30	0,242
115	2	2K 0.1%	828-0554	ERA6AEB202V	0,230	5	AR0805-2K-0.1%	0,113	10	4	TME	0,113 €	5	0,565
116	1	2R2 5% / 2W	720-3231	CRM2512-JW- 2R2ELF	0,406	5	WF25P-2R2-5%	0,042	50	2	TME	0,042 €	2	0,084
117	1	330K 1%	679-1272	CRCW0805330 KFKEA	0,024	50	RC0805FR-07330K	0,007	100	2	Farnell	0,002 €	10	0,020
118	2	330R 1%	740-9022	CR0805-FX- 3300GLF	0,025	50	RC0805FR-07330R	0,007	100	4	Farnell	0,002€	10	0,020
119	4	330R 5% / 2W	755-1224	3521330RFT	0,182	10	WF25P-330R-5%	0,042	50	4	TME	0,042 €	10	0,419
120	3	470R 1%	223-0376	CRG0805F470R	0,024	50	RC0805FR-07470R	0,007	100	6	TME	0,007 €	10	0,073
121	1	47K 1%												
	2	47K 1%												
	7	47K 1%												
			679-1434	CRCW080547K 0FKEA	0,010	50	RC0805FR-0747K	0,007	100	17	Farnell	0,006€	20	0,126
400	7	4K7 1%												
122	′	4K/ 170												
	2	4K7 1%												
			223-0528	CRG0805F4K7	0,011	50	RC0805FR-074K7	0,008	100	11	Farnell	0,002€	20	0,040
123	4	49R9 1%												
	2	49R9 1%												
			679-1462	CRCW080549R 9FKEA	0,011	50	RC0805FR-0749R9	0,007	100	6	Farnell	0,002€	10	0,020
124	2	51K 1%	679-1525	CRCW080551K 0FKEA	0,020	50	RC0805FR-0751K	0,006	100	4	TME	0,006 €	10	0,061
125	3	5K1 1%		VI ILLI										
		5K1 1%												
			679-1569	CRCW08055K1 0FKEA	0,027	50	RC0805FR-075K1	0,007	100	8	Farnell	0,002 €	10	0,021
											1			

								Farnell / Element	14		Digi-Ke	y	Mouse	r
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price N	IOQ	Part Number	Unit price MOQ	Part Number	Unit price MC
126		5K6 1%	0805	R121, R130	AUX PS	2								
	4	5K6 1%	0805	R26, R92, R97, R104	Power board	10	2447693	MCWR08X5601FT L	0,006	10	RC0805FR- 075K6L	0,019	RC0805FR- 075K6L	0,015
127	3	750R 1%	0805	R47, R93, R100	Power board	6								
	2	750R 1%	0805	R160, R161	Arduino Shield	8	9333525	MC01W08051750R	0,002	10	RC0805FR- 07750RL	0,019	RC0805FR- 07750RL	0,015
128	2	7K5 0.1%	0805	R44, R55	Power board	4	1670239	ERA6AEB752V	0,312	10	RT0805BRD077 K5L	0,350	RT0805BRD077 K5L	0,357
129	2	82R 0.1%	0805 / 0603	R67, R71	Power board	4	1577592	ERA3AEB820V	0,185	10	P82DBCT-ND	0,370 1	667-ERA- 6AEB820V	0,547 1
130		R010 1% / 2W	2512 or 1206 / min 1W	R2	Power board	2	1435947	CRA2512-FZ- R010ELF	0,484		CRA2512-FZ- R010ELF	0,540	CRA2512-FZ- R010ELF	0,568
131		R020 1% / 2W	2512, 2W	R69	Power board	2	2079436	LRMAM2512- R02FT4	0,250		CRA2512-FZ- R020ELF	0,540	CRA2512-FZ- R020ELF	0,568
132		4x10K 5%	1206; resistor array	RN1, RN2	Arduino Shield	2	1770137	CAY16-103J4LF	0,110	10	CAY16-103J4LF	0,090	CAY16-103J4LF	0,095
133 134		LD-BZEN-0903 A101SYCQ04	THT	SP1 Buzzer SW1	Arduino Shield Arduino Shield	1	2292959	A101SYCQ04	2,760	1	A101SYCQ04	3,000	TE092703-6 A101SYCQ04	2,200 2,640
135		1301.9316	SMD; tactile switch	SW2	Arduino Shield	1	1217765	1301.9316	,	1	FSM6JSMA	0,210	1301.9316	0,270
136 137		820uH Dual Coil VTX-214-005-112	SMD; 7.6mm x 7.6mm THT	TR1 TR2	Power board AUX PS	2 1	1852832 2401044	SRF0703-821M VTX-214-005-112	-,	1	SRF0703-821M -	0,720	SRF0703-821M -	0,758
138 139		39-30-3035 2411-01	THT 4,2mm 3-pin THT, solder on bottom layer!	X1 X11 USB Connector	Power board AUX PS	2 1	9963545 1177884	39303035 2411-01	-,	1	39-30-3035 952-1767-ND	0,800 0,730	39-30-3035 710- 61400413321	0,603 1,200
140	2	MC000006	THT, do not solder. Insert into 2 x SIP sockets on bottom layer !	X12, X14 Front Treminal	Arduino Shield	2	2007972	MC000006	1,900	1	-		-	
141	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
142	1	22-23-2021	THT	X17 AUX temp	Arduino Shield	1	1462926	22-23-2021	0,100	1	22-23-2021	0,140	22-23-2021	0,141
143	1	MC34753	THT	X18	Arduino Shield	1	1593431	MC34753	0,422	10	M20-9750846	0,230	710- 61300811021	0,670
144		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	-	
145		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
146		09185107324 09185107324	THT; 2x5-pin header THT; 2x5-pin header	X5 X16	AUX PS Arduino Shield	1								
	'	09103107324	1111, 2x3-piir neadei	X10	Ardulilo Sillela	2	1096985	09 18 510 7324	1,220	1	09185107324	1,460	09185107324	1,460
147	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
		LMJ2138814S0L1T1C	THT, solder on bottom layer!		AUX PS	1	-		.,		-	., .,	-	.,
149	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	6								
						7	1022256	M20-9990845	0,117	10	M20-9990845	0,240	M20-9990845	0,317

				RS Compone	nts		TME	urce code a		J			ice calcula	tion fo	r 1 set
				no componer				Unit price							
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Best Line Price €	Qty	Line Cost €
126		5K6 1%													
	4	5K6 1%													
			679-1572	CRCW08055K6 0FKEA	0,021	50	SMD0805-5K6-1%	0,008	100		10	Farnell	0,006€	10	0,063
127	3	750R 1%													
121		750R 1%													
	_	7001(17)	679-1660	CRCW0805750 RFKEA	0,010	50	CRCW0805750RFKTA BC	0,012	100		8	Farnell	0,002€	20	0,040
128	2	7K5 0.1%	666-2588	CPF0805B7K5E	0,280		RN73C2A7K5BTDF	0,520	2		4	RS	0,280 €		1,400
129	2	82R 0.1%	565-863	ERA6AEB820V	0,046	5	AR0805-82R-0.1%	0,113	10		4	RS	0,046 €	10	0,460
130	1	R010 1% / 2W	693-4381	CRA2512-FZ- R010ELF	0,515	5	LRP2512-R010-1%	0,151	5		2	TME	0,151 €	5	0,754
131	1	R020 1% / 2W	693-4384	CRA2512-FZ- R020ELF	0,507	5	WW25NR020FTL	0,189	5		2	TME	0,189€	5	0,945
132		4x10K 5%	522-5585	CAY16-103J4LF	0,020	50	DR1206-10K-4/8	0,007			2	TME	0,007€		0,013
133	1	LD-BZEN-0903	-				LD-BZEN-0903	0,504	3	1		TME	0,504 €		1,512
134	1	A101SYCQ04	710-9788	A101SYCQ04	2,576	1	-			1		RS	2,576 €		2,576
135	1	1301.9316	718-2443	FSM6JSMATR	0,818	5	1301.9316	0,220	5		1	Digikey	0,210 €		0,210
136	1	820uH Dual Coil	-				-				2	Digikey	0,720 €		1,440
137	1	VTX-214-005-112	792-4372	Myrra 47154	10,140		-			1		Farnell	8,120 €		8,120
138	1	39-30-3035	670-5849	39-30-3035	0,969	5	MX-5569-03A4	0,476	1	2		TME	0,476 €		0,952
139	1	2411-01	-				2411-01	0,660	1	1		TME	0,660 €	1	0,660
140	2	MC000006	-				-			1		Farnell	1,900 €	1	1,900
141	2	TSW-113-07-F-D	-				-			2		Mouser	1,410 €	2	2,820
142	1	22-23-2021	679-5583	22-23-2021	0,087	10	MX-22-23-2021	0,070	10	1		TME	0,070 €	1	0,070
143	1	MC34753	828-1673	61300811021	0,759	5				1		Digikey	0,230 €	1	0,230
144	1	SSW-113-02-T-D-RA	-				ZL263-26DG	0,399	2	2		TME	0,399€	2	0,798
145	1	39-30-3055	670-5861	39-30-3055	0,563	5	-			1		Farnell	0,530 €	1	0,530
146	1	09185107324													
	1	09185107324													
			740-7108	09185107324	1,442	1	T821-1-10-S1	0,290	2	2		TME	0,290 €	2	0,580
147	1	22-23-2031	679-5587	22-23-2031	0,083	10	MX-22-23-2031	0,080	10	1		TME	0,080€	1	0,080
148	1	LMJ2138814S0L1T1C	-				RJ45-TRAFO-LP	2,820	1	1		TME	2,820 €	1	2,820
149	1	826629-8													
	6	826629-8													
			681-2997	M20-9990845	0,125	10	ZL201-08G	0,065	10	7		TME	0,065€	10	0,649
					,			,							

							Farnell / Element	t14	Digi-Ke	Э У	Mouse	r
# Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOG	Part Number	Unit price MOQ €	Part Number	Unit price MOQ
150 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
151 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
152 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
153 3	SMAJ18A	DO-214AC	ZD3, ZD10, ZD11	Arduino Shield	3	1749305	SMAJ18A-TR	0,070 10	SMA6J18A-TR	0,340	SMA6J18A-TR	0,407
154 1	BZX384-C4V3	SOD-323	ZD12	Arduino Shield	1	8735697	BZX384-C4V3	0,182 5	MM3Z4V3T1G	0,130	BZX384- C4V3,115	0,110
155 1	BZX384-C15.115	SOD-323	ZD4	Power board	2	8735506	BZX384-C15	0,182 5	MM3Z15VT1G	0,130	MM3Z15VT1G	0,118
	PDZ6.2B	SOD-323	ZD5	Power board	2	1757863	PDZ6.2B,115	0,266 5	MM3Z6V2T1G	0,130	MM3Z6V2T1G	0,118
157 2	P4SMAJ48A	DO-214AC	ZD8, ZD9	Arduino Shield	2	1749310	SMAJ48A-TR	0,264 1	SMAJ48A-TR	0,340	SMAJ48A-TR	0,340
470 4	AUX PS 230 V protection		0.101	41 D/ DO		1010051	0007 47 81 5	1.050 1	2007 47 84 5	4.070	0007 47 DI 5	1.040
	CG2-470L	THT	SAR1	AUX PS		1846854	2027-47-BLF	1,850 1	2027-47-BLF	1,270	2027-47-BLF	1,340
	S20K250	THT	VAR1, VAR2	AUX PS		1004357	B72220S0251K101		B72220S0251K1 01	0,850	B72220S0251K1 01	0,936
160 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
	Not installed											
	1u	1206	C14	Power board	2	-						
	100n	0805	C15, C19	Power board	4	-						
	10n 50V X7R	0805	C154, C155	Arduino Shield	2							
	n.c.	0805	C158	Power board	2	-						
	n.c.	0805	C160	Power board	2	-						
	1n	0805	C200, C201, C202, C203	Power board	8	-						
	n.c. 2m2	0805 THT, Ø18mm, solder on bottom layer!	C39 C4, C5	Power board Power board	2 4	-						
1	n.c.	0805	C96	AUX PS	1	_						
	100n	0603	C99, C100, C101, C102, C103	AUX PS	5	-						
4	STPS15H100	TO-252	D1, D2, D3, D4	Power board	8	-						
	SMBJ5.0A-TR	DO-214AA	D26	Arduino Shield	1	_						
	60R@100MHz	0603	FB5, FB6	AUX PS	2	_						
	S1751-46R	0805	GND, SW	Power board	4	_						
	TPD4E002DRLR		IC17	AUX PS	1	-						
	TPD2E001DZDR		IC18	AUX PS	1	-						
	ADUM3160BRWZ		IC19	AUX PS	1	-						
1	12K	1208	R1	Power board	2	-						
	n.c.	0805	R13, R175	Power board	4	-						
	22R	0805	R132, R133	AUX PS	2	-						
	4K7 1%	0805	R169, R171	Arduino Shield	2							
2	10K 1%	0805	R170, R172	Arduino Shield	2							
1	47K	0805	R33	Arduino board	1	-						
1	n.c.	1206	R63	Power board	2	-						
	826629-5	THT	X10	AUX PS	1	-						

				D0.6				ource code a	ι πιρδ.	//gitilu	D.COIII/E				
				RS Componer			TME					Pi	ice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost
50	1	826629-5	681-2981	M20-9990545	0,160	10	ZL201-05G	0,032	25	1		TME	0,032 €	1	0,0
51	1	32.768kHz	226-1443	LFXTAL002995	0,532	1	32.768K-TC38	0,144	5	1		TME	0,144 €	1	0,1
52	1	25MHz	814-9550	QCS25.0000F18 B23R	0,217	10	25.00M-SMDHC49S	0,373	2		1	RS	0,217€	1	0,2
53	3	SMAJ18A	795-9268	SMA6J18A-TR	0,112	25	P4SMAJ18A-DIO	0,105	5		3	Farnell	0,070€	5	0,3
54	1	BZX384-C4V3	508-696	BZX384-C4V3	0,013	100	BZT52C4V3-DIO	0,019	25		1	RS	0,013€	1	0,0
55	1	BZX384-C15.115	802-4568	MM3Z15VST1G	0,013	200	BZX384-C15.115	0,019	25		2	RS	0,013€	2	0,0
6	1	PDZ6.2B	725-8247	PDZ6.2B,115	0,014	100	PDZ6.2B	0,019	25		2	RS	0,014 €	2	0,0
57	2	P4SMAJ48A	687-3286	SMAJ48A	0,098	25	P4SMAJ48A-DIO	0,102	5 75		2	RS	0,098€	2	0, ⁻ 178,4
		AUX PS 230 V protect	tion												
8	1	CG2-470L	878-3652	CG2-470L	2,279		CG2-470L	1,450	1	1		Digikey	1,270 €	1	1,:
9	2	S20K250	289-7301	B72220S0251K1 01	0,745	5	SIOV-S20K250	0,524	1	2		TME	0,524 €	2	1,
0	2	1.5KE400CA	486-4381	1.5KE400CA	0,781	5	1.5KE400CA	0,256	3 3	2 48	687	TME	0,256 €	3	0, ⁻ 3,0
		Not installed													
		1u					-				2				
		100n					-				4				
		10n 50V X7R									_				
		n.c.									2				
		n.c.									0				
		1n									8				
		n.c. 2m2					-			4	2				
	1	n.c.													
		100n					-				5				
	4	STPS15H100					-				8				
		SMBJ5.0A-TR									1				
		60R@100MHz					-				2				
		S1751-46R					-				4				
	1	TPD4E002DRLR					-				1				
	1	TPD2E001DZDR					-				1				
	1	ADUM3160BRWZ					-				1				
		12K					-				2				
	2	n.c.					-				4				
		22R					-				2				
	2	4K7 1%													
	2														
	2 2 2	4K7 1%									1				
	2 2 2	4K7 1% 10K 1%					-				1				

							Farnell / Elemen	t14	Digi-Ke	y ·		Mouse	r	
Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
	22-23-2041	THT	X19 Optional Encoder	Arduino Shield	1	-								
1	282836-2	THT	X2	Power board	2	-								
2	n.c.		ZD1, ZD2	Power board	4	-								
	Power module AC input	option												
	2200uF 63V	THT, solder on bottom layer	! C4, C5	Power board	4	1822562	UVR1J222MHD	2,540 1	UVR1H222MHD	1,680		UVR1H222MHD	1,710	
	Option #1: UVZ1H222MHD	THT, solder on bottom layer	! C4, C5	Power board	0	1822570	UVZ1H222MHD	2,420 1	UVZ1H222MHD	1,500		UVZ1H222MHD	1,690	
	Option #2: UVZ1J222MHD	THT, solder on bottom layer	! C4, C5	Power board	0	1822575	UVZ1J222MHD	2,420 1	UVZ1J222MHD	2,210		UVZ1J222MHD	2,780	
4	STPS15H100	TO-252	D1, D2, D3, D4	Power board	8	2344052	STPS15H100CB- TR	1,070 1	STPS15H100CB	0,900		STPS15H100CB	0,896	
1	12K 1%	1206	R1	Power board	2	1100220	WCR1206-12KFI	0,026 10	RC1206FR- 0712KL	0,090		RC1206FR- 0712KL	0,091	
1	282836-2	THT, Terminal Block	X2	Power board	2	3089034	282836-2	0,452 1	282836-2	0,830		282836-2	0,385	
1	INDEL TST450/014	-	Transformer: toroidal; 450VA; 230VAC; 2x40V; 2x5.62A; 4kg	Enclosure	1	-			VPT100-5000	81,040		VPM100-5000	129,850	
	Other													
1	MEAN WELL LRS-150-48	Power module 48VDC; 3.3A		Power board	2	-			-			LRS-150-48	23,980	
	LRS-150F-48	Power module 48VDC; 3.3A (auto-range)		Power board	0	-			-			LRS-150F-48	28,190	1
	Heatsink 70 x 120 mm	Not required if Varisom enclosure kit is purchased!		Power board	0	-			-			-		
	Arduino Due			Arduino Shield	1	2250861	A000062	40,660 1						
	3.2" TFT LCD Varisom enclosure kit	Enclosure, AC/DC mounting rail, TFT display mounting rail, handles, foot		Arduino Shield Enclosure	1	-								
1	PCB+PCBA	Hallaice, leet		Enclosure	1	-								
	Nuts & bolts													
1	12V fan 60x60mm			Enclosure	1	<u> </u> -			I-			I-	-	
	FSP-2	Fastener for fan		Enclosure	4	-			-			-		
	FG-06	Finger guard, 60x60mm, metal	I	Enclosure	1	2292912	MC32696	0,567 1	-			-		
1	0.4 mm thermal silicone pad	for Q4		Power board	2			1						
	5 mm thick thermal silicone pad (20 x 75 mm)	Mounted below power pre- regulator	Search AliExpress, eBay, etc.	Power board	2									
2	BS-244DSM-R	Binding post 4mm, red	J1, J4	Arduino Shield	2	1815818	2,12	4,240						
	BS-244DSM-G	Binding post 4mm, green	J2	Arduino Shield	1	1815820	2,17	2,170						
2	BS-244DSM-B	Binding post 4mm, black	J3, J5	Arduino Shield	2	1815819	2,11	4,220						
1	12V fan 60x60mm			Enclosure	1	-								
4	FSP-2	Fastener for fan		Enclosure	4	-								
1	FG-06	Finger guard, 60x60mm, metal		Enclosure	1	2292912	0,453	0,453 1						

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			RS Componer	nts		TME					Pı	rice calcula	tion fo	r 1 set
Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost
1	22-23-2041													
1	282836-2					-			2					
2	n.c.					-				4				
	Power module AC input	,												
2	2200uF 63V	862-3229	UVR1H222MHD	2,156	1	UVR1H222MHD	1,100	1						
	Option #1: UVZ1H222MHD	845-4755	UVZ1H222MHD	1,218	5	UVZ1H222MHD	0,973	1						
	Option #2: UVZ1J222MHD	862-1759	UVZ1J222MHD	2,814	1	UVZ1J222MHD	1,593	1	4		TME	1,593 €	4	6,3
4	STPS15H100	795-9075	STPS15H100CB -TR	0,924	5	-				8	Mouser	0,896€	8	7,1
1	12K 1%	223-2401	CRG1206F12K	0,008	50	RC1206JR-0712K	0,006	100		2	TME	0,006 €	2	0,0
1	282836-2	361-7667	282836-2	0,414	5	282836-2	0,280	2	2		TME	0,280 €	2	0,5
1	INDEL TST450/014					TST450/014	36,500	1	1		TME	36,500 €	1	36,5
	Other													
1	MEAN WELL LRS-150-48	3 -				LRS-150-48	15,100	1	-		TME	15,100 €	2	30,2
	Option #1: MEAN WELL LRS-150F-48	-				LRS-150F-48	18,000	1	-					
0	Heatsink 70 x 120 mm	-				RAD-A4463/120	1,370	1	-					0,0
1	Arduino Due	769-7412	A000062	33,680	1	Itead/Eckstein	19,480		-		TME	19,480 €	1	19,4
1	3.2" TFT LCD					Itead/Eckstein	12,140		-		TME	12,140 €	1	12,1
1	Varisom enclosure kit								-					
1	PCB+PCBA								-					61,8
	Nuts & bolts													01,0
1	12V fan 60x60mm	_				MB60251V1-G99	2,590	1	-		TME	2,590 €	1	2,5
4	FSP-2	_				FSP-2	0,140	5	_		TME	0.140 €	1	0,1
1	FG-06	-				FG-06	0,513	1	-		TME	0,513 €	1	0,
1	0.4 mm thermal silicone pad					SMICA-SOT93		10	-		Farnell	0,000€	20	0,0
1	5 mm thick thermal silicone pad (20 x 75 mm)								-					
2	BS-244DSM-R					BS-244DSM-R	1,120				TME	1,120 €	2	2,
1	BS-244DSM-G					BS-244DSM-G	1,120				TME	1,120 €	1	1,
2	BS-244DSM-B					BS-244DSM-B	1,140				TME	1,140 €	2	2,
1	12V fan 60x60mm					MB60251V1-G99	4,110				TME	4,110 €		0,
4	FSP-2					FSP-2	0,140				TME	0,140€		0,0
1	FG-06					FG-06	0,513				Farnell	0,453 €	1	0,

								Farnell / Elemen	nt14	Digi-Ke	Э У		Mouse	r	
C	ty F	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ €	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
	2 M3x5 co finish	ountersunk, black	Rear and front panel		Enclosure	2									
	2 M3x5 co finish	ountersunk, black	AC/DC mounting rail		Enclosure	2									
	2 M3x5 co finish	ountersunk, black	AC inlet		Enclosure	2									
	8 M3x5 co finish	ountersunk, black	Power board top and bottom plate mounting		Power board	16									
						22	-								
	4 M4x6		Front panel handles		Enclosure	4	_								
	1 Washer	externally M3, D=6mm	Earth connection		Enclosure	1									
	1 Washer	externally M3, D=6mm	Q4 mounting to heatsink		Power board	2									
						3	7096471	0,013	0,013						
		cheese head	Q4 mounting to heatsink		Power board	2	-								
		M3, 8mm	Enclosure feet		Enclosure	4	-								
-	5 M3x8, bl	lack finish	AUX PS mounting, ext		AUX PS	5									
	3 M3x8, bl	lack finish	Top and bottom plates		Enclosure	8									
	1 M3x8, bl	lack finish	AC/DC mounting rail		Power board	2									
	4 M3x8, bl	lack finish	Power board heatsink		Power board	8									
						23	-								
	5 M3x5		AUX PS mounting, int		AUX PS	5									
	2 M3x5		AC/DC mounting rail		Power board	4									
	- WOXO		7.0720 mounting run		1 owor board	9	-								
	1 TFF-M3)	X40/DR124	40 mm metal spacer, M3 (a pair is required for dual channel)		Power board	2	-								
•	4 Screwed hexagon	d spacer sleeve; nal	14 mm, M3		AUX PS	4	1466812	0,326	1,304						
	9 Screwed M5; 8mm	d spacer sleeve; n; brass	Extend binding post for PCB mounting		Arduino Shield	9	-								
	4 Spacer s cylindrical	sleeve; 5mm; al; brass	5 mm between PCB and heatsink		Power board	8	1733405	0,0652	0,522						
	4 ???		Speacer between display and Arduino shield		Arduino Shield	4			0,000						
1	2 Light pip	e for LED	Round; Ø3mm; Front: convex; straight		Arduino Shield	12	2293496	0,636	7,632						
	1 Schurter	4304.6090	C14 IEC inlet, switch, 2 fuse drawer is included		Enclosure	1	2080294	8,65	8,650						
	2 4A Fuse				AUX PS	2	-								
0,	06 CB-HFT	50.8/1M-BL	Heat shrink sleeve; 2:1, 50.8mm		AUX PS	0,06	-								
0,	09 Thermal	pad 5mm		eBay, AliExpress	Power board	0,17	-								

Wire harness				
1 10K NTC	Main temperature sensor	Arduino Shield 1 1187031	0,271	

			RS Compone	nts	TME				Pı	rice calcula	tion fo	r 1 set
Qty	Part name	Code	Part Number	Unit price MO0	Code / Part Number	Unit price MOQ	тнт :	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
2	M3x5 countersunk, black finish									·		
2	M3x5 countersunk, black finish											
2	M3x5 countersunk, black finish											
8	M3x5 countersunk, black finish											
					M3X5/D965B	0,013			TME	0,013€	22	0,291
4	M4x6				B4X6/BN3334	0,014			TME	0,014 €		0,000
1	Washer externally serrated M3, D=6mm					2,2				2,2112		, ,,,,,
1	Washer externally serrated M3, D=6mm											
					B3/BN789	0,008			TME	0,008 €	3	0,025
1	M3x12, cheese head				B3X12/BN272	0,026			TME	0,026 €	2	0,05
	Washer M3, 8mm				B8X0.4/BN806	0,026			TME	0,026 €		0,10
	M3x8, black finish											
8	M3x8, black finish											
1	M3x8, black finish											
4	M3x8, black finish											
					M3X8/D7985B	0,019			TME	0,019€	23	0,420
5	M3x5											
2	M3x5											
					M3X5/D7985	0,013			TME	0,013€	9	0,114
1	TFF-M3X40/DR124				TFF-M3X40/DR124	0,156			TME	0,156 €	2	0,312
4	Screwed spacer sleeve; hexagonal				B3X14/BN3320	0,309			TME	0,309€	4	1,238
9	Screwed spacer sleeve; M5; 8mm; brass				TFM-M5X8/DR218	0,187			TME	0,187 €	9	1,68
	Spacer sleeve; 5mm; cylindrical; brass				DR316/3.2X5	0,057			TME	0,057 €	8	0,456
	???								Farnell	0,000€	4	0,000
12	Light pipe for LED				PLP2-625	0,764			TME	0,764 €	12	9,173
1	Schurter 4304.6090				4304.6090	3,594			TME	3,594 €	1	3,594
2	4A Fuse				ZKT-4A	0,095 10			TME	0,095€	2	0,189
0,06	CB-HFT50.8/1M-BL				CB-HFT50.8/1M-BL	1,241			TME	1,241 €	1	1,241
0,09	Thermal pad 5mm											0,000
												24,99 €
	Wire harness											
1	10K NTC				NTCLE100E3103JB0	0,269	l		TME	0,269€	1	0,269

							Farnell / Element	14	Digi-K	ey	Mouse	r	
Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ	Part Number	Unit price MOQ €	Part Number	Unit price €	MOQ
1	39-01-4030	Receptacle for X1	DC power input	Power board	2	9963480	39-01-4030	0,219 1	39-01-4030	0,300	39-01-4030	0,292	
1	39-01-4050	Receptacle for X4	AC power input	AUX PS	1	9963502	39-01-4050	0,327 1	39-01-4050	0,360	39-01-4050	0,358	
1	22-01-2035	Receptacle for X6	Cooling fan	AUX PS	1	143127	22-01-2035	0,192 10	22-01-2035	0,310	22-01-2035	0,290	
2	NSR-08	Receptacle for X8, X18	Ethernet cable	AUX PS	2								
	39-00-0078	Pins for X1	DC power input	Power board	6								
5	39-00-0078	Pins for X4	AC power input	AUX PS	5								
					11	9732675	39-00-0078 100pc	13,300 1	39-00-0078	0,144	39-00-0078	0,112	
	08-50-0114	Pins for X6	Cooling fan	AUX PS	3								
2	08-50-0114	Pins for X17	MAIN temperature sensor	Arduino board	2								
					5	2063734	08-50-0114	0,030 10	08-50-0114	0,170	08-50-0114	0,141	
21	NDR-T	Contact; female; 28÷22AWG; NSR/NDR; tinned	X8, X18	Arduino Shield	21	1022219	M20-1180042	0,064 100	952-2158-ND	0,130	855-M20- 1180042	0,127	1
1		Ring terminal; M4; 1÷2.5mm2		Enclosure	1	-							
4	ST-003/05-20T	Female quick disconnect	AC switch patch cables	Enclosure	4								
1	ST-003/05-20T	Female quick disconnect	AC inlet Earth (Side B)	Enclosure	1								
2	ST-003/05-20T	Female quick disconnect	Lower AC/DC module power input (Side B)	Enclosure	2								
1	ST-003/05-20T	Female quick disconnect	Cable set #1	Arduino board	1								
					8	2060332	5-160433-6	0,063 50					
2	H1.5/14D/BK	Bootlace ferrule; insulated, 1.5mm2	Cable set #1	Enclosure	2								
4	H1.5/14D/BK	Bootlace ferrule; insulated, 1.5mm2	Cable set #2	Enclosure	4								
					6	9972307	E1508-RED	0,028 100					
2	H1.5/16D2/BK	Bootlace ferrule, twin entry; insulated, 1.5mm2	Cable set #1	Enclosure	2								
3	H1.5/16D2/BK	Bootlace ferrule, twin entry; insulated, 1.5mm2	Cable set #2	Enclosure	3								
					5	1121754	9037470000	0,112 100					
	Cat5E cable, stranded wire		Ethernet cable	Enclosure	1	1734894	PS11029	1,120 1					
	LGY1.5/10-BR	Insulated wire, stranded, brown, 1.5 mm2	AC switch patch cables	Enclosure	0,09								
0,2	LGY1.5/10-BR	Insulated wire, stranded, brown, 1.5 mm2	Lower AC/DC module power input	Enclosure	0,2								
0,07	LGY1.5/10-BR	Insulated wire, stranded, brown, 1.5 mm2	Upper AC/DC module power input	Enclosure	0,07								
0,11	LGY1.5/10-BR	Insulated wire, stranded, brown, 1.5 mm2	AUX PS module power input	Enclosure	0,11								
					0,47	1764967	6716 BR005	0,757 31					

	RS Components TME								Price calculation for 1 set					
			K3 Compone											i set
Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
1	39-01-4030	510-9685	39-01-4030	0,232		MX-5557-03R2	0,132		-		TME	0,132€		0,264
	39-01-4050	510-9708	39-01-4050	0,188		MX-5557-05R2	0,240		-		RS	0,188 €		0,188
	22-01-2035	296-4940	22-01-2035	0,204	5	MX-6471-031	0,050		-		TME	0,050 €	1	0,050
	NSR-08					NSR-08	0,087	10	-					
	39-00-0078 39-00-0078													
J	39-00-0076	215-5887	39-00-0078 100pc	14,100	1	MX-5556-T3L	0,074	10	-		TME	0,074 €	11	0,816
	08-50-0114													
2	08-50-0114										Farnell	0,000 €	_	
		172-9178	08-50-0114	0,085	100	MX-0850-0114	0,047	10	-		Farnell	0,030 €	5	0,150
21	NDR-T	681-2887	122-4777	0,041	100	NDR-T	0,027	25			TME	0,027€	21	0,566
1						3804/M.05.00.9	0,025	20			TME	0,025€		0,000
4	ST-003/05-20T								-					0,000
1	ST-003/05-20T								-					0,000
2	ST-003/05-20T								-					0,000
1	ST-003/05-20T													
						ST-003/05-20	0,051		-		TME	0,051 €	8	0,406
2	H1.5/14D/BK													
4	H1.5/14D/BK													
						H1.5/14D/BK	0,024	20	-		TME	0,024 €	6	0,141
2	H1.5/16D2/BK													
3	H1.5/16D2/BK													
						H1.5/16D2/BK	0,047	10			TME	0,047 €	5	
1	Cat5E cable, stranded wire					CA00600.00C01	6,800	1	-		Farnell	1,120 €	1	1,120
0,09	LGY1.5/10-BR													
0,2	LGY1.5/10-BR													
0,07	LGY1.5/10-BR													
0,11	LGY1.5/10-BR													
						LGY1.5/10-BR	0,620	10	-		TME	0,620 €	0	0,291

						Farnell / Element14		Digi-Key			Mouser			
# Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ €	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
0,09	LGY1.5/10-BL	Insulated wire, stranded, blue , 1.5 mm2	AC switch patch cables	Enclosure	0,09									
0,2	LGY1.5/10-BL	Insulated wire, stranded, blue , 1.5 mm2	Lower AC/DC module power input	Enclosure	0,2									
0,07	LGY1.5/10-BL	Insulated wire, stranded, blue , 1.5 mm2	Upper AC/DC module power input	Enclosure	0,07									
0,11	LGY1.5/10-BL	Insulated wire, stranded, blue , 1.5 mm2	AUX PS module power input	Enclosure	0,11									
					0,47	1764966	6716 BL005	0,779 31						
0,4	LGY1.5/10-RD	Insulated wire, stranded, red , 1.5 mm2	Cable set #1, Power board X1 cable	Enclosure	0,4									
0,33	LGY1.5/10-RD	Insulated wire, stranded, red , 1.5 mm2	Cable set #2, Power board X1 cable	Enclosure	0,33									
					0,73	1764971	6716 RD005	0,740 31						
0,4	LGY1.5/10-BK	Insulated wire, stranded, black, 1.5 mm2	Cable set #1, Power board X1 cable	Enclosure	0,4									
0,33	LGY1.5/10-BK	Insulated wire, stranded, black, 1.5 mm2	Cable set #2, Power board X1 cable	Enclosure	0,33									
					0,73	1764965	6716 BK005	0,583 31						
0,4	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	Cable set #1, Power board X1 cable	Enclosure	0,4									
0,07	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	Cable set #1, AC/DC module Earth	Enclosure	0,07									
0,17	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	Chassis Earth	Enclosure	0,17									
0,5	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	Arduino Shield Earth	Enclosure	0,5									
0,33	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	Cable set #2, Power board X1 cable	Enclosure	0,33									
0,15	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	Cable set #2, AC/DC module Earth	Enclosure	0,15									
0,15	GY1.5/10-YL/GR	Insulated wire, stranded, green-yellow, 1.5 mm2	AUX PS module Earth	Enclosure	0,15									
					1,77	1764969	6716 GY005	0,818 31						
1	Arduino USB cable	USB micro to 5-pin receptacle cable, 30 or 50 cm	Search e.g. AliExpress		1 -									
1	FC10300-0	Ribbon cable with IDC connectors, 30 cm		Arduino Shield	1 -	-								

All prices are net prices (without VAT)

Please note that BOM does not contain ordering number for parts on reels or that which includes re-reeling fee (e.g. Farnell). Take also into account that total cost is higher because min. quantity (MOQ) for many parts is larger then what is needed for single unit.

				RS Compone	nts	TME			Price calculation for 1 set					
#	Qty	Part name	Code	Part Number	Unit price MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Best Line Price €	Order Qty	Line Cost €
	0,09	LGY1.5/10-BL												
	0,2	LGY1.5/10-BL												
	0,07	LGY1.5/10-BL												
	0,11	LGY1.5/10-BL												
						LGY1.5/10-BL	0,620	10	-		TME	0,620€	0	0,291
	0,4	LGY1.5/10-RD												
	0,33	LGY1.5/10-RD												
						LGY1.5/10-RD	0,620	10	-		TME	0,620 €	1	0,453
	0,4	LGY1.5/10-BK												
	0,33	LGY1.5/10-BK												
						LGY1.5/10-BK	0,620	10	-		Farnell	0,583€	1	0,425
	0,4	GY1.5/10-YL/GR												
	0,07	GY1.5/10-YL/GR												
	0,17	GY1.5/10-YL/GR												
	0,5	GY1.5/10-YL/GR												
	0,33	GY1.5/10-YL/GR												
	0,15	GY1.5/10-YL/GR												
	0,15	GY1.5/10-YL/GR												
						GY1.5/10-YL/GR	0,620	10	-		TME	0,620 €	2	1,097
	1	Arduino USB cable				-			-		Farnell	0,000€	1	0,000
	1	FC10300-0				FC10300-0	1,040	1	-		TME	1,040 €	1	1,040
														7,57 €

Total 275,90 €

PCBA PCBs (min. 20 pcs) Enclosure Estimated Estimated Estimated 0,000 25,00 51,00 76,00

Estimated total: 351,90 €