								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 €
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	17	100n 16V X7R	0603	C9, C20, C32, C43, C44, C45, C49, C50, C51, C54, C56, C59, C63, C65, C69, C72, C73	Power board	34							
		100n 16V X7R	0603	C81, C82, C83, C84, C85	AUX PS	5							
	27	100n 16V X7R	0603	C97, C98, C99, C100, C101, C102, C104, C106, C107, C108, C109, C111, C113, C114, C121, C122, C123, C124, C125, C126, C127, C128, C132, C134, C136, C139, C141	Arduino Shield	27							
						66	2496832	0603B104K160CT	0,012 10	0603YC104KAT2 A	0,010	06033C104K4T4 A	0,025
3	1	220u 16V	SMD ELCO; Ø6.3 x 7.7mm	C78	AUX PS	1	1870605	MCESL16V227M6.	0,213 10	399-6679-1-ND	0,410 1	80-	0,407 1
3	'	2200 10V	SIND LLCO, DO.3 X 7.711111	070	AUXF3	'	1070003	3X7.7	0,213 10	399-0079-1-ND	0,410 1	EDK227M016A9	0,407
4	5	10n 50V X7R	0805	C118, C131, C135, C137, C138	Arduino Shield	5							
	7	10n 50V X7R	0805	C25, C28, C35, C42, C47, C70, C74	Power board	14							
				0.14		19	1759246	MC0805B103K500 CT	0,009 10	CL21B103KBCN NNC	0,027	GRM216R71H10 3KA01D	0,014
5	2	10u 50V X7R	1210	C90, C110	Arduino Shield	2							
		10u 50V X7R	1210	C10, C16, C22, C24, C29, C30, C55	Power board	14							
						16	2362133	GRM32ER71H106 KA12L	0,748 1	CL32B106KBJN NWE	0,335	GRM32ER71H10 6KA12L	0,376
6	2	10u 10V	1206, Tantalum	C105, C129	Arduino Shield	2							
0		10u 10V	1206, Tantalum	C23, C31, C57	Power board	6							
			,			8	1457413	T491A106K010AT	0,260 5	T491A106K010A T	0,340	T491A106K010A T	0,344
7	2	120p 50V NP0	0805 / 0603	C17, C39	Power board	4	1414667	C0805C121J5GAC	0,044 10	CL21C121JBAN NNC	0,058	C0805C121J5GA CTU	0,031
8	2	18p 50V NP0	0805 / 0603	C116, C120	Arduino Shield	2	2320820	MC0805N180J101 CT	0,026 10	CL21C180JBAN NNC	0,090	C0805C180J5GA CTU	0,100
9	2	1n 50V NP0	0805 / 0603	C52, C53	Power board	4	1759227	MC0805N102J500 CT	0,029 10	CL21C102JBCN NNC	0,065	C0805C102J5GA CTU	0,038
10	2	1u 100V X7R	1206, 100V	C8, C33	Power board	4	2320876	MC1206B105K101 CT	0,200 5	CL31B105KCHN NNE	0,253	GRM31CR72A10 5KA01L	0,227
11	7	1u 50V X7R	0805, 50V	C11, C26, C46, C48, C58, C64, C66	Power board	14	2118131	C0805C105K5RAC TU	-,	CL21B105KBFN NNE	0,129	08055C105K4T2 A	0,135
12		22n 50V X7R	0805	C115	Arduino Shield		1759252	MC0805B223K500 CT		CL21B223KBAN NNC	0,058	C0805C223K5R AC	0,031
13		2n2 50V NP0	0805 / 0603	C36, C37, C38, C40, C71	Power board		1759236	MC0805N222J500 CT		CL21C222JBFN NNG		GRM2165C1H22 2JA01D	0,076
14		3n3 50V X7R or NP0	0805 / 0603	C60, C61, C67, C68	Power board		1759291	MC0805B332K101 CT	0,015 10	CL21B332KBAN NNC	0,045	C0805C332K5R AC	0,024
15		470n 50V X7R	0805, 50V	C7	Power board	2							
	2	470n 50V X7R	0805, 50V	C87, C92	Arduino Shield	2	l						

				RS Componer	nts		TME				Р	rice calcula	tion fo	r 1 set
#	0.	5 .	0 1		Unit price		0.1.15.11	Unit price		TUT 0115	Post	Lowest	Order	
	Qty	Part name	Code	Part Number	€	MOQ	Code / Part Number	€	MOQ	THT SMC	Supplier	unit 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	17	100n 16V X7R												
	5	100n 16V X7R												
	27	100n 16V X7R												
			391-246	0603YC104JAT2	0,004	50	CL10B104KO8NNNC	0,004	100	66	RS	0,004 €	100	0,400
				Α										
3	1	220u 16V	839-1770	865080345012	0,280	10	SC1C227M6L07KVR	0,061	10	1	TME	0,061 €	1	0,061
4	5	10n 50V X7R												
	7	10n 50V X7R												
			461-4013	CC0805KRX7R9 BB103	0,007	50	CL21B103JBANNNC	0,006	100	19	TME	0,006 €	20	0,120
5	2	10u 50V X7R												
	7	10u 50V X7R												
			766-1214	CL32B106KBJN	0,601	10	CL32B106KBJNNNE	0,201	10	16	TME	0,201€	16	3,216
				NNE	.,			-, -				.,		
•	_	40401/												
6	2	10u 10V 10u 10V												
		100 100	538-2278	T491A106K010A	0,196	10	T491A106K010AT	0,085	10	8	TME	0,085€	10	0,845
				T										
7	2	120p 50V NP0	723-6209	GRM2165C1H1	0,035	100	CL21C121JBANNNP	0,007	100	4	TME	0,007 €	10	0,069
,	_	120p 30V 141 0	725-0209	21JA01D	0,000	100	OLZ TO 12 ISBANININI	0,007	100	7	IIVIL	0,007 C	10	0,003
8	2	18p 50V NP0	648-0935	C0805C180J5G	0,157	10	CL21C180JBANNNC	0,071	100	2	Farnell	0,026 €	2	0,053
9	2	1n 50V NP0	378-710	ACTU 0805CG102J9B	0,021	25	CL21C102JBCNNNC	0,010	100	4	TME	0,010€	10	0,097
3		III 30V NFO	370-710	B	0,021	23	CL2 IC 1023BCINING	0,010	100	7	I IVIL	0,010 €	10	0,097
10	2	1u 100V X7R	740-7590	C3216X7R2A10	0,174	10	GRM31CR72A105KA0	0,128	10	4	TME	0,128 €	10	1,279
11	7	1u 50V X7R	766-1062	5K160AA CL21B105KBFN	0,041	100	1L CL21B105KBFNNNG	0,014	100	14	TME	0,014 €	15	0,214
	,	10 000 7/11	700 1002	NNF	0,041	100	OLZ IB IOONBI WWW	0,014	100	1-7	I IVIL	0,014 C	10	0,214
12	1	22n 50V X7R	464-6701	08055C223KAT2	0,015	50	CL21B223KBANNNC	0,008	100	1	TME	0,008€	10	0,084
13	5	2n2 50V NP0	802-9905	A C0805C222J5G	0,043	100	GRM2165C1H222JA0	0,015	100	10	TME	0,015€	10	0,145
	Ū			ACTU	3,0.0		1D			.0				
14	4	3n3 50V X7R or NP0	237-7009	GRM216R71H3 32KA01D	0,038	50	CL21B332KBANNNC	0,007	100	8	TME	0,007 €	10	0,069
15	1	470n 50V X7R		32NAU ID										
		470n 50V X7R												
							•			•	•			

								Farnell / Element	14	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
						4	2470492	GRM21BR71H474 KA88L	0,163 5	CL21B474KBFN FNE	0,139	C0805C474K5R ACTU	0,103
16	2	470p 50V NP0	0805 / 0603	C14, C19	Power board	4	1759217	MC0805N471J500 CT	0,023 10	CL21C471JBAN NNC	0,090	08055A471JAT2 A	0,091
17		47n 50V X7R	0805	C133, C140	Arduino Shield	2							
	1	47n 50V X7R	0805	C79	AUX PS	3	2496983	0805B473K500CT	0,023 10	CL21B473KBCN NNC	0,090	08055C473KAT2 A	0,091
18	1	47n 400V Polyester Film	THT R=7,5mm	C76	AUX PS	1	2468839	B32520E6473K000	0,358 1	-		-	
19		47p 50V NP0	0805 / 0603	C34, C41	Power board	4	1414692	C0805C470J5GAC TU	0,028 10	CL21C470JBAN NNC	0,043	C0805C470J5GA CTU	0,029
20		47u 35V	SMD ELCO, Ø6.3 x 5.8mm	C103	Arduino Shield	1							
	2	47u 35V	SMD ELCO, Ø6.3 x 5.8mm	C77, C80	AUX PS	3	9695850	EEEFK1V470P	0,493 1	EEEFK1V470P	0,440	EEEFK1V470P	0,443
21	1	47u 50V	SMD ELCO; Ø8x10.2mm	C13	Power board	2							
	2	47u 50V	SMD ELCO; Ø8x10.2mm	C89, C94	Arduino board	2							
00	4	4-7 400V VZD	0005	04 00 04 040	Dawaahaaad	4	9695931	EEEFK1H470P	0,622 1	PCE3815CT-ND	0,600 1	667-EEE- FK1H470P	0,754 1
22		4n7 100V X7R 4n7 100V X7R	0805 0805	C1, C2, C4, C18 C88, C91, C93, C95	Power board Arduino board	8 4							
		4117 100V X/TX	0003	000, 031, 033, 033	Arddino board	12	1759293	MC0805B472K101 CT	0,019 10	CL21B472KCAN NNC	0,065	GRM21AR72D47 2KW01D	0,050
22	4	47 40\/	1006 Tantalum	C130	Arduina Chiald	4							
23		4u7 10V 4u7 10V	1206, Tantalum 1206, Tantalum	C130	Arduino Shield Power board	1 2							
	•	147 107	1200, Tuntaian	021	i ower board	3	1457428	T491A475K016AT	0,238 5	T491A475K010A T	0,310	T491A475K010A T	0,299
24	2	4u7 100V X7R	1210, 100V, X7R	C5, C6	Power board	4	2211140	CGA6M3X7S2A47 5K200AB	1,560 1	GRJ32DC72A47 5KE11L	1,240	GRJ32DC72A47 5KE11L	1,250
25	2	6n8 50V X7R or NP0	0603	C117, C119	Arduino Shield	2	1759100	MC0603B682K500 CT	0,007 10	CL10B682KB8N NNC	0,090	GRM188R71H68 2KA01J	0,091
26		6n8 (X1 / Y2) PP Film 300Vac 1000Vdc	THT R=10mm	C75	AUX PS		2478385	R413F16804000M	0,528 1	R413F16804000 M	0,520	R413F16804000 M	0,525
27		1F 5,5V Backup Cap	THT	C112	Arduino Shield		9697497	EEC-S5R5H105	4,660 1	EEC-S5R5H105	3,480	EEC-S5R5H105	3,510
28 29		100u 63V 18u 50V	SMD ELCO; Ø10 x 10.2mm	C15 C3	Power board	2	9696040	EEEFK1J101P	0,846 1	EEE-FK1J101P	0,930	EEE-FK1J101P	0,932
29		18u 50V	SMD ELCO Polymer; Ø8x6.3mm SMD ELCO Polymer;	C86, C96	Power bord Arduino Shield	2							
	2	16u 30 v	Ø8x6.3mm	C60, C90	Aldullio Silleid		2354813	50SVPF18M	1,830 1	P18942CT-ND	1,430 1	667-50SVPF18M	1,720 1
						7	2007010	330 VI I TOWN	1,000 1	1007201-110	1,700 1	1007 000 VI I 101VI	1,720 1
30		BAS316	SOD-323	D12	AUX PS	1							
		BAS316	SOD-323	D13, D14, D15, D16, D18, D21	Arduino Shield	6							
	9	BAS316	SOD-323	D2, D3, D4, D5, D6, D7, D8, D9, D10	Power board	18							

				50.0				ource code at -	πιμδ.	//gitilub	.00/11/6				. 4 1
#				RS Componer			TME					Pr	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	Lowest unit price €	Order Qty	Line Cost €
			766-1053	CL21B474KBF4 PNG	0,085	50	CL21B474KBFNNNG	0,015	100		4	TME	0,015€	10	0,153
16		470p 50V NP0 47n 50V X7R	378-700	0805CG471J9B B	0,021	25	CL21C471JBANNNC	0,009	100		4	TME	0,009€	2	0,018
17	1	47n 50V X7R	391-303	08055C473KAT2	0,011	50	CC0805KRX7R9473	0,008	100		3	TME	0,008 €	3	0,025
				Α											
18	1	47n 400V Polyester Film	668-9993	B32520C6473K1 89	0,241	10	-			1		RS	0,241 €	1	0,241
19		47p 50V NP0	264-4270	C0805C470J5G ACTU	0,014	25	CC0805JRNPO9470	0,007	100		4	TME	0,007 €	10	0,074
20		47u 35V													
	2	47u 35V	565-623	EEEFK1V470AP	0,165	5	EEEFK1V470P	0,157	5		3	TME	0,157 €	10	1,572
21		47u 50V													
	2	47u 50V	537-0590	EEEFK1H470P	0,170	5	EEEFK1H470P	0,197	5		4	RS	0,170 €	5	0,850
22	4	4n7 100V X7R													
	4	4n7 100V X7R	698-3364	08051C472KAZ 2A	0,036	25	CL21B472KCANNNC	0,006	100		12	TME	0,006€	20	0,126
23	1	4u7 10V													
	1	4u7 10V	538-2341	T491A475K016A T	0,179	10	T491A475M010AT	0,128	5		3	TME	0,128€	5	0,640
24 25	2	4u7 100V X7R 6n8 50V X7R or NP0	915-5415 147-825	CGA6M3X7S2A 475K200AB C0603C682K5R	0,686		- CL10B682JB8NNNC	0,004	100		2	RS TME	0,686 €	10	2,744 0,042
25	_	ONO SOV X/IX OF INFO	147-023	ACTU	0,007	30	CE TODOO23DOININO	0,004	100		2	I IVIL	0,004 C	10	0,042
26		6n8 (X1 / Y2) PP Film 300Vac 1000Vdc	871-2489	890334023003C S	0,420		MKP-Y2-6N8	0,158	5	1		TME	0,158 €	1	0,158
27		1F 5,5V Backup Cap	339-6843	EECS5R5H105	3,556		EECS5R5H105	2,190	1	1	0	TME	2,190 € 0,380 €	1	2,190
28 29	2	100u 63V 18u 50V	708-3623	EEEFK1J101P	0,641	5	EEEFK1J101P	0,380	5		2	TME	0,360 €	2	0,760
	2	18u 50V													
			-				-				4	Digikey	1,430 €	5	7,150
30		BAS316													
	6	BAS316													
	9	BAS316													

								Farnell / Element	t14	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
						25	8734275	BAS316,115	0,192 5	BAS316,115	0,175	BAS316,115	0,174
31	1	BAT54S	SOT-23	D19	Arduino Shield	1	1621835	BAT54S	0,125 10	BAT54SLT1G	0,150	BAT54SLT1G	0,145
32		SKL16	SOD-323	D11	AUX PS	1			2,120		2,100		2,1.10
	1	SKL16	SOD-323	D20	Arduino Shield	1							
						2	8738025	PMEG4005AEA	0,104 5	PMEG4005AEA	0,325	PMEG4005AEA	0,286
33	1	STPS15H100	TO-252	D1	Power board	2	2344052	STPS15H100CB- TR	1,070 1	STPS15H100CB	0,900	STPS15H100CB	0,896
34		50mA, polyfuse	1210	F1	Arduino board	1	1861176	MC36203	0,163 5	507-1476-1-ND	0,200 1	530- 0ZCJ0005FF2E	0,101 1
35		60R@100MHz	0603 Ferrite Bead	FB1, FB2, FB3	Power board	6							
		60R@100MHz	0603 Ferrite Bead	FB4, FB5, FB6	AUX PS	3							
	1	60R@100MHz	0603 Ferrite Bead	FB7	Arduino Shield	1 10	1625704	740700600	0,210 1	742792602	0.210	742792602	0.160
						10	1635704	742792602	0,210 1	742792002	0,210	742792002	0,160
36	1	LTC3864EMSE#PBF	MSOP-12	IC1	Power board	2	2293128	LTC3864EMSE#PB F	3 4,520 1	LTC3864EMSE# PBF	3,960	-	
37		DAC8552IDGKTG4	MSOP-8 (VSSOP-8)	IC10	Power board		1329584	DAC8552IDGKTG4		DAC8552IDGKT	7,660	DAC8552IDGKR	6,510
38		ADG465BRTZ	SOT-23	IC11	Power board		2376952	ADG465BRTZ- REEL7	1,690 1	Discontinued		Discontinued	
39	1	TS5A9411DCKT	SC-70	IC12	Power board	2	1755582	TS5A9411DCKT	1,050 1	TS5A9411DCKR	0,560	TS5A9411DCKR	0,534
40	1	ADS1120IPWR	TSSOP-16	IC13	Power board		2402249	ADS1120IPWR	6,760 1	ADS1120IPWR	6,250	ADS1120IPWR	6,100
41		LP339D	SOIC-14	IC14	Power board		9589686	LP339D	0,573 1	LP339DR	0,520	LP339DR	0,498
42	1	TPD4E002DRLR		IC15	AUX PS	1	1755329	TPD4E002DRLR	0,275 1	296-21694-1-ND	0,660 1	595- TPD4E002DRLR	0,594 1
43	1	TPD2E001DZDR		IC16	AUX PS	1	2335446	TPD2E001DZDR	0,506 1	296-24770-1-ND	0,580 1	595- TPD2E001DZDR	0,519 1
44	1	ADUM3160BRWZ		IC17	AUX PS	1	1843660	ADUM3160BRWZ	7,070 1	ADUM3160BRW Z-ND	7,290 1	584- ADUM3160BRW Z	6,660 1
45		TLC5925IDBQR	SSOP-24	IC18	Arduino Shield	1	1694438	TLC5925IDBQR	1,520 1	TLC5925IDBQR	1,370	TLC5925IDBQR	1,330
46		Si8641EC-B-IS1	SOIC-16	IC19, IC23	Arduino Shield		2423294	Si8641EC-B-IS1	3,210 1	Si8641EC-B-IS1	2,780	Si8641EC-B-IS1	2,720
47		LP2951D	SOIC-8	IC2	Power board	2	1755066	LP2951D	0,573 1	LP2951DR	0,520	LP2951DR	0,498
48		SI8651EC-B-IS1	SOIC-16	IC20, IC21	Arduino Shield	2	2423323	SI8651EC-B-IS1	3,150 1	SI8651EC-B-IS1	3,190	SI8651EC-B-IS1	3,060
49	1	LD1117ADT33TR	TO-252	IC22	Arduino Shield	1	1087169	LD1117DT33	0,358 5	LD1117ADT33TR	0,590	LD1117ADT33TR	0,570
50	1	PCA21125T/Q900/1,1	TSSOP-14	IC24	Arduino Shield	1	2400445	PCA21125T/Q900/ 1,1	,	PCA21125T/Q90 0/1,1	1,610	PCA21125T/Q90 0/1,1	1,660
51	1	AT25256B	SOIC-8	IC25	Arduino Shield	1	1841577	AT25256B-SSHL-B	1,190 1	AT25256B- SSHL-B	1,300	AT25256B- SSHL-B	1,290
52	1	W5500	LQFP-48	IC26	Arduino Shield	1	-			W5500	3,750	W5500	2,390
53		BC857BS	SOT-363	IC27	Arduino Shield	1	1653608	BC857BDW1T1G	0,141 1	BC857BDW1T1G	0,210	BC857BDW1T1G	
54	1	TLC555	SOIC-8	IC28	Arduino Shield	1	9589880	NE555DR	0,300 1	NE555D	0,350	NE555D	0,353

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				RS Componer	nts		TME				Pr	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	Lowest unit price €	Order Qty	Line Cost €
			397-2914	BAS316,115	0,195	50	BAS316,115	0,019	25	25	TME	0,019€	25	0,463
31 32	1	BAT54S SKL16	670-8797	BAT54S	0,202	10	BAT54S.215	0,017	50	1	TME	0,017€	1	0,017
	1	SKL16	485-729	PMEG4005AEA, 115	0,325	20	SKL16	0,095	5	2	TME	0,095€	10	0,952
33	1	STPS15H100	795-9075	STPS15H100CB -TR	0,924	5	-			2	Mouser	0,896 €	2	1,792
34	1	50mA, polyfuse	-				SM005-60	0,092	10	1	TME	0,092€	1	0,092
35	3	60R@100MHz 60R@100MHz												
	1	60R@100MHz	669-4049	742792602	0,172	10	LCBA-600	0,027	25	10 0	TME	0,027€	10	0,269
36	1	LTC3864EMSE#PBF	-				-			2	Digikey	3,960 €	2	7,920
37	1	DAC8552IDGKTG4	662-1498	DAC8552IDGKT	6,524	1	-			2	Farnell	6,420 €	2	12,840
38	1	ADG465BRTZ	-				-			2	Farnell	1,690 €	2	3,380
39	1	TS5A9411DCKT	459-459	TS5A9411DCKT	0,570	10	-			2	Mouser	0,534 €		1,068
40		ADS1120IPWR	-				-			2	Mouser	6,100 €	2	12,200
41 42		LP339D TPD4E002DRLR	661-2659 709-9060	LP339DR TPD4E002DRLR	0,175 0,199		LP339D -	0,244	3	2 1	RS RS	0,175 € 0,199 €		0,350 0,199
43	1	TPD2E001DZDR	812-0171	TPD2E001DZDR	0,193	25	-			1	RS	0,193€	3	0,579
44	1	ADUM3160BRWZ	796-9041	ADUM3160BRW Z	5,880	1	ADUM3160BRWZ-RL	4,040	1	1	TME	4,040 €	1	4,040
45	1	TLC5925IDBQR	812-3984	TLC5925IDBQR	1,109	10	-			1	RS	1,109€	1	1,109
46		Si8641EC-B-IS1	753-2438	Out of stock			-			2	Mouser	2,720 €	2	5,440
47	1	LP2951D	796-8095	LP2951D	0,613	5	LP2951CM/NOPB	0,495	1	2	TME	0,495 €	2	0,990
48		SI8651EC-B-IS1	753-2497	Si8651EC-B-IS1	3,038		- - -	0.045	0	2	RS	3,038 €	2	6,076
49		LD1117ADT33TR	086-9123	LD1117ADT33T R	0,294	10	LD1117ADT33	0,315	3	1	RS	0,294 €		0,294
50		PCA21125T/Q900/1,1	700 0070	ATOFOCO	4.00=	0	0544050 1/051	4.000	1	1	Digikey	1,610 €		1,610
51		AT25256B	738-0079	AT25256B- SSHL-B	1,267	2	25AA256-I/SN	1,290		1	Farnell	1,190 €		1,190
52 53	1	W5500 BC857BS	- 690-0101	BC857BDW1T1 G	0,022	25	W5500 BC857BS	2,190 0,027		1 1	TME RS	2,190 € 0,022 €		2,190 0,022
54	1	TLC555	662-4006	TLC555CDR	0,218	10	TLC555CDR	0,384	3	1	RS	0,218€	1	0,218

								Farnell / Element	14			Digi-Ke	у		Mouse	r	
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit •	price €	1OQ	Part Number	Unit price €	MOQ	Part Number	Unit price N	ИOQ
55	1	SN74LVC08APWR	SSOP-8	IC29	Arduino Shield	1	1102978	SN74LVC08APWR	(0,236	1	296-1221-1-ND	0,350	1	595- SN74LVC08APW R	0,335	1
56	1	TL783CKTTR	TO-263-3	IC3	Power board	2	2075436	TL783CKTTR	;	2,070	1	296-20778-1-ND	2,270	1	595- TL783CKTTR	2,220	1
57	1	SN74LV1T34DBVR	SOT-23	IC30	Arduino Shield	1	2499914	SN74LV1T34DBVR	. (0,457	1	SN74LV1T34DB VR	0,410		SN74LV1T34DB VR	0,398	
58		TPS3705-33D	SOIC-8	IC31	Arduino Shield		2296066	TPS3705-33D		.,	1	TPS3705-33DR	1,580		TPS3705-33D	1,840	
59		SN74LVC2G02DCTR	SSOP-8	IC32	Arduino Shield		1236358	SN74LVC2G02DC TR		0,452		SN74LVC2G02D CTR	0,590		SN74LVC2G02D CTR	0,570	
60	1	LTC3260EMSE#PBF	MSOP-16	IC4	Power board	2	2115838	LTC3260EMSE#PB F	3 .	7,660	1	LTC3260EMSE# PBF-ND	6,780	1	-		
61	2	TL072CD	SOIC-8	IC5, IC6	Power board	4	1467663	TL072CDT	(0,252	5	TL072CDT	0,430		TL072CDT	0,416	
62		OP27GSZ	SOIC-8	IC7	Power board		9426124	OP27GSZ		2,810		OP27GSZ	3,140		OP27GSZ	3,080	
63	1	MCP23S17-E/SS	SSOP-28	IC8	Power board	2	1467675	MCP23S17-E/SS		1,280	1	MCP23S17- E/SS-ND	1,270	1	579-MCP23S17- E/SS	1,320	1
64		REF5025AIDG4	SOIC-8	IC9	Power board	2	1439622	REF5025AIDG4		3,720		REF5025AIDR	2,990		REF5025AIDR	2,910	
65		1-726388-2	THT	J2	Arduino board	1	2308760	1-726388-2	(0,085	10	A121493-ND	0,210	1	571-1-726388-2	0,235	1
66		RT424005	THT	K_PAR, K_SER	Arduino Shield	2											
	1	RT424005	THT	K_DOUT2	AUX PS	1	9950168	G2RL-2 5DC		3,940	1	RTE24005	2,920		RTE24005	2,850	
						3	9930 100	GZRL-2 SDC	•	3,940	1	K1E24005	2,920		K1E24005	2,000	
67	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	
68	1	SK 145/37,5	THT Heatsink for installation of Q21 and Q22 like on the picture here.	KK1	AUX PS	1	4621414	SK 145/37,5 STS- 220	;	3,530	1	-			-		
	1	M3 nut	For mounting Q21, Q22 to KK1		AUX PS	1	-										
		Washer externally serrated M3, D=6mm	For mounting Q21, Q22 to KK1		AUX PS		7096471	6797/3.0		1,870	100						
		M3x8, black finish	For mouniting Q21, Q22 to KK1		AUX PS	1	-										
69		RN112-4-02	THT, solder on the bottom layer!	L1	Power board		1191474	RN112-4-02		3,240	1	817-1535-ND	2,510	1	631-RN112-4/02	2,290	1
70		470uH	SMD; 7.3mm x 7.3mm	L5	AUX PS		2455059	SRR0745A-471M		-,	1	SRR0745A-471M	0,770		SRR0745A-471M	0,814	
71		33uH - 7443551331	SMD; 13.2mm x 12.8mm	L2	Power board		2211631	Würth - 7443551331		3,070		7443551331	3,380		7443551331	2,970	
72		IHLP2020CZER3R3M11	SMD; 5.49mm x 5.18mm	L3, L4	Power board		1741325	IHLP2020CZER3R 3M11		1,410		IHLP2020CZER3 R3M11	2,160		IHLP2020CZER3 R3M11	1,030	
		TFT_320QVT	THT; 2x20-pin socket	LCD1	Arduino Shield	1	7992033	M20-7832046		2,750		M20-7832046	3,160		M20-7832046	2,530	
74	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	
75	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	
76	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	
77	4	HSMY-C170	0805 Yellow	LED_CV1, LED_CV2, LED_S1, LED_S2	Arduino Shield	4	5790876	HSMY-C170		0,330	5	HSMY-C170	0,440		630-HSMY-C170	0,060	

				RS Componer	nts		TME	urce code at		J			ice calcula	tion for	r 1 set
#				rto componer	Unit price			Unit price				Best	Lowest	Order	1 001
	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Supplier	unit price €	Qty	Line Cost €
55	1	SN74LVC08APWR	662-8588	SN74LVC08AP WR	0,240	10	-				1	Farnell	0,236 €	1	0,236
56	1	TL783CKTTR	660-7455	TL783CKTTR	1,904	5	-				2	RS	1,904 €	2	3,808
57	1	SN74LV1T34DBVR	-				-				1	Mouser	0,398 €	1	0,398
58	1	TPS3705-33D	662-3331	TPS3705-33D	0,528	5	-				1	RS	0,528 €	1	0,528
59	1	SN74LVC2G02DCTR	-				SN74LVC2G02DCTR	0,252	5		1	TME	0,252 €	1	0,252
60	1	LTC3260EMSE#PBF	851-6768	LTC3260EMSE# PBF	5,800	1	-				2	RS	5,800 €	2	11,600
61	2	TL072CD	857-907P	TL072CD	0,252	1	TL072CD	0,164	3		4	TME	0,164 €	4	0,654
62	1	OP27GSZ	522-8304	OP27GSZ	3,024	1	OP27GSZ	1,550	1		2	TME	1,550 €	2	3,100
63	1	MCP23S17-E/SS	669-6452	MCP23S17- E/SS	1,168	5	MCP23S17-E/SS	1,290	1		2	RS	1,168 €		2,336
64	1	REF5025AIDG4	404-304	REF5025AID	3,500	1	-				2	Mouser	2,910 €	2	5,820
65	1	1-726388-2	680-5772	1-726388-2	0,060	100	1-726388-2	0,082	10	1		RS	0,060 €	1	0,060
66	2	RT424005 RT424005													
		R1424005	198-6898	RTE24005	4,676	1	RT424005	1,260	1	3		TME	1,260 €	3	3,780
			100 0000	TTLZ-1000	4,070	•	111424000	1,200	•	J		IIVIL	1,200 C	J	0,700
67	2	G6K-2F-5DC	683-9633	G6K2F5DC	4,928	1	G6K-2F-5DC	2,490	1		2	TME	2,490 €	2	4,980
68	1	SK 145/37,5	-				-			1		Farnell	3,530 €	1	3,530
	4	MO					D0/D1447	0.005	400			T. 45	0.005.6	4	0.005
	1	M3 nut					B3/BN117	0,005				TME	0,005€	1	0,005
	1	Washer externally serrated M3, D=6mm M3x8, black finish					B3/BN789 M3X8/D7985B	0,008				TME	0,008 €	1	0,008
	'	MOXO, DIACK IIIIISII					W3X6/D7963B	0,019	100			TIVIE	0,019 €	'	0,019
69	1	RN112-4-02	219-3261	RN112-4-02	3,160	1	-			2		Mouser	2,290 €	2	4,580
70	1	470uH	770-1182	DR74-471-R	0,977	5	DE0704-470	0,254	5		1	TME	0,254 €	1	0,254
71	1	33uH - 7443551331	-				-				2	Mouser	2,970 €	2	5,940
72	2	IHLP2020CZER3R3M11	748-6912	IHLP2020CZER 3R3M01	1,518	5	-				4	Mouser	1,030 €	4	4,120
73		TFT_320QVT	681-6851	M20-7832046	3,027	5	ZL262-40DG	0,329	2	1		TME	0,329 €	2	0,658
74		HSMG-C170		HSMG-C170	0,206		HSMG-C170	0,095			2	Mouser	0,060 €		0,120
75	5	HSMH-C170	486-0468	HSMH-C170	0,188	25	HSMH-C170	0,057	10		5	TME	0,057 €	5	0,287
76	1	HSMD-C170	486-0525	HSMD-C170	0,231	25	HSMD-C170	0,059	10		1	TME	0,059€	1	0,059
77	4	HSMY-C170	486-0519	HSMY-C170	0,248	25	HSMY-C170	0,060	10		4	Mouser	0,060€	4	0,240

								Farnell / Element14			Digi-Key		Mouser	
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number L	Init price €	MOQ	Part Number ^{Uı}	nit price MOQ	Part Number	Jnit price MOQ
78	1	10K/Beta:3570K	0805	NTC1	Power board	2	1612623	NTCS0805E3103J MT	0,413	1	NTCS0805E3103 JMT	0,250	NTCS0805E3103 JMT	0,145
79	1	MOC3052	SMD; SDIP-6	OK1	AUX PS		2453236	MOC3052SM	0,884	1	MOC3052SM	0,910	MOC3052SM	0,750
80	1	MOC3062	SMD; SDIP-6	OK2	AUX PS	1	2322554	MOC3062SR2VM	0,977	1	MOC3062SM	1,110	MOC3062SM	0,924
81		HCPL-181	SOIC-4	OK3, OK4	AUX PS	2								
	2	HCPL-181	SOIC-4	OK5, OK6	Arduino Shield	2								
						4	1244525	HCPL-181-000E	0,342	1	HCPL-181-000E	0,560	HCPL-181-000E	0,150
82	2	IRFR5305	TO-252	Q1, Q7	Power board	4	8649820	IRFR5305PBF	0,994	1	IRFR5305PBF- ND	0,810	942- IRFR5305PBF	0,805
		Option #1: SPD30P06P	TO-252	Q1, Q7	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, Q7	Power board	0	2101465	SUD19P06-60-GE3	1,590	5	SUD19P06-60- GE3	0,950	SUD19P06-60- GE3	1,070
83	5	MMBT5551	SOT-23	Q11, Q12, Q17, Q19, Q20	Power board	10	1459109	MMBT5551LT1G	0,167	5	MMBT5551LT1G	0,180	MMBT5551LT1G	0,163
84	4	MMBT5401	SOT-23	Q2, Q9, Q10, Q18	Power board	8	1459108	MMBT5401LT1G	0,167	10	MMBT5401LT1G	0,180	MMBT5401LT1G	0,163
85	2	BTA26-600	THT	Q21, Q22	AUX PS	2	1057286	BTA26-600BRG	2,840	1	BTA26-600BRG	2,930	BTA26-600BRG	3,110
86	1	IRLL2705PBF	SOT-223	Q13	Power board	2								
	1	IRLL2705PBF	SOT-223	Q23	AUX PS	1								
						3	8651230	IRLL2705PBF	0,578	1	IRLL2705PBF- ND	0,630 1	942- IRLL2705PBF	0,622 1
87		IRFR48ZPB	TO-252	Q14	Power board	2	1013388	IRFR48ZPBF	1,310	1	IRFR48ZTRLPBF CT-ND	1,090 1	942- IRFR48ZPBF	1,110 1
88		IRLML2246TRPBF	SOT-23	Q26, Q27, Q28, Q29, Q31	Arduino Shield	5								
	1	IRLML2246TRPBF	SOT-23	Q15	Power board	2								
						7	1888166	IRLML2246TRPBF	0,287	1	IRLML2246TRPB F	0,400	IRLML2246TRPB F	0,389
89	2	2N7002	SOT-23	Q24, Q25	AUX PS	2								
	2	2N7002	SOT-23	Q3, Q16	Power board	4								
	3	2N7002	SOT-23	Q30, Q32, Q33	Arduino Shield	3								
						9	1713823	2N7002-7-F	0,135	5	2N7002LT1G	0,130	2N7002LT1G	0,118
90	1	IRFP250N	THT, solder on the bottom layer! See pic here and here	Q4	Power board	2	8649260	IRFP250NPBF	2,080	1	IRFP250NPBF	1,870	IRFP250NPBF	1,870
91	1	BC857C	SOT-23	Q5	Power board	2	8734771	BC857C,215	0,022	10	BC857CLT1G	0,120	BC857CLT1G	0,109
92	2	BCP56-16.115	SOT-223	Q6, Q8	Power board	4	1081258	BCP56-16,115	0,256	5	BCP56-16T1G	0,360	BCP56-16,115	0,340
93	5	0R	0805	JP1, JP2, JP3, R6, R56	Power board	10								
	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

								ource code a	ι πιμδ.	//yıtılul	J.COIII/E				
4				RS Componer			TME					Pr	ice calcula	ition fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
78	1	10K/Beta:3570K	697-4601	NB12K00103JB B	0,392	5	NTCS0805E3103JMT	0,190	5		2	Mouser	0,145€	2	0,290
79	1	MOC3052	761-3690	MOC3052SM	0,739	5	MOC3052SR2VM	0,380	2		1	TME	0,380 €	1	0,380
80	1	MOC3062	806-6064	MOC3062SM	0,718	10	MOC3062XSM	0,410	1		1	TME	0,410€	1	0,410
81		HCPL-181													
	2	HCPL-181													
			693-5277	HCPL-181-000E	0,343	10	HCPL-181-000E	0,250	2		4	Mouser	0,150 €	4	0,600
														_	
82	2	IRFR5305		IRFR5305PBF	0,994		IRFR5305PBF	0,540			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					-								
83	5	MMBT5551	545-0400	MMBT5551LT1G	0,129		MMBT5551	0,020	25		10	TME	0,020 €		0,510
84	4	MMBT5401	545-0393	MMBT5401LT1G	0,151	10	MMBT5401	0,021	25		8	TME	0,021 €	25	0,513
85	2	BTA26-600	714-0515	BTA26-600BRG	3,038	1	BTA26-600BRG	2,540	1	2		TME	2,540 €	2	5,080
86	1	IRLL2705PBF													
	1	IRLL2705PBF													
			540-9907	IRLL2705PBF	0,260	1	IRLL2705PBF	0,307	1		3	RS	0,260 €	3	0,780
87	1	IRFR48ZPB	688-7055	IRFR48ZPBF	1,234	1	IRFR48ZPBF	0,540	1		2	TME	0,540 €	2	1,080
88	5	IRLML2246TRPBF													
	1	IRLML2246TRPBF													
			760-4432	IRLML2246TRP BF	0,322	5	IRLML2246TRPBF	0,100	5		7	TME	0,100 €	7	0,700
89	2	2N7002													
	2	2N7002													
	3	2N7002													
	_		545-0012	2N7002LT1G	0,108	50	2N7002LT1G	0,019	25		9	TME	0,019€	25	0,475
					,			-,-					-,		-, -
90	1	IRFP250N	541-0042	IRFP250NPBF	2,100	1	IRFP250NPBF	1,060	1	2		TME	1,060 €	2	2,120
91	1	BC857C	690-0105	BC857CLT1G	0,102	25	BC857C-DIO	0,020	25		2	TME	0,020 €	2	0,040
92	2	BCP56-16.115	773-7633	BCP56-16T3G	0,242	10	BCP56-16.115	0,106	5		4	TME	0,106€	4	0,424
93		0R													
	5	0R													
			670 0000	CRCW08050000	0.020	50	SMD0805-0R	0.006	100		15	TME	0.006.6	15	0.000
			079-0000	Z0EA	0,020	50	SIVIDUOUS-UK	0,006	100		15	TME	0,006 €	15	0,090
										ı					

								Farnell / Element	14		Digi-Key	1	Mouse	r
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	1OQ	Part Number	Unit price MOQ	Part Number	Unit price MOQ €
94	6	100K 1%	0805	R12, R15, R22, R23, R73, R75	Power board	12								
•		100K 1%	0805	R123	AUX PS	1								
	2	100K 1%	0805	R135, R146	Arduino Shield	2								
						15	2352619	RCV0805100KFKE A	0,080	10	RC0805FR- 07100KL	0,019	RC0805FR- 07100KL	0,015
95	2	100K 0.1%	0805	R43, R53	Power board	4	1577686	ERA6AEB104V	0,205	5	RT0805BRD0710 0KL	0,350	CPF0805B100KE	0,095
96	1	100R 1%	0805	R116	AUX PS	1								
		100R 1%	0805	R155	Arduino Shield	1								
	3	100R 1%	0805	R7, R8, R42	Power board	6								
						8	9332375	MC01W08051100R	0,002	10	RC0805FR- 07100RL	0,019	RC0805FR- 07100RL	0,015
97	2	10K 1%	0805	R121, R122	AUX PS	2								
		10K 1%	0805	R139, R145, R149, R157, R165	Arduino Shield	5								
	18	10K 1%	0805	R3, R10, R11, R19, R27, R40, R49, R51, R58, R69, R72, R74, R82, R91, R94, R95, R98, R102	Power board	36								
						43	9237755	RC0805FR-0710KL	0,011	10	RC0805FR- 0710KL	0,019	RC0805FR- 0710KL	0,015
98	1	10R 1%	1206	R143	Arduino Shield	1								
30		10R 1%	1206	R9, R33, R81	Power board	6								
				,			9236643	RC1206FR-0710RL	0,017	10	RC1206FR- 0710RL	0,029	RC1206FR- 0710RL	0,022
	4	40144.407	0005	D444	Andria Obiald		0444050	NACO41N/0005440K4	0.000	40	DOGGET	0.000	DOGGET	0.004
99		12K4 1%	0805	R144	Arduino Shield		2141850	MC01W0805112K4	0,002		RC0805FR- 0712K4L	0,090	RC0805FR- 0712K4L	0,091
100		18-22R / 7W 16K 1%	THT, RM 5mm, radial, max. Height 40 mm 0805	R103 R17, R34	AUX PS		1687978	SQM7-22RJI	0,474		SQMW722RJ RC0805FR-	0,590	280-PRM7-20- RC RC0805FR-	0,378
101					Power board		9332677	MC01W0805116K			0716KL	0,019	0716KL	0,015
102		180R 1%	0805	R134, R147, R148, R150	Arduino Shield	4	2447583	MCWR08X1800FT L	0,006	10	RC0805FR- 07180RL	0,019	RC0805FR- 07180RL	0,015
103		1K 1%	0805	R114, R120	AUX PS	2								
		1K 1%	0805	R163, R164	Arduino Shield	2								
	5	1K 1%	0805	R28, R38, R68, R78, R92	Power board	10 14	1099800	WCR0805-1K0FI	0,018	10	RC0805FR- 071KL	0,019	RC0805FR- 071KL	0,015
404	0	11/0 10/	0005	D24 D55	Dower be seed									
104		1K8 1% 1K8 1%	0805 0805	R24, R55 R130, R151	Power board Arduino Shield	4 2								
	۷	110 170	0000	11100, 11101	, additio Stileid	6	2447595	MCWR08X1801FT L	0,006	10	RC0805FR- 071K8L	0,019	RC0805FR- 071K8L	0,015
105	2	1R 1%	0805	R129, R132	Arduino Shield	2	2141629	MC01W080511R0	0,002	10	RC0805FR- 071RL	0,090	RC0805FR- 071RL	0,091

				RS Componer	nts		TME					Pr	ice calcula	tion fo	r 1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOO	Code / Part Number	Unit price €	MOO	тыт	SMD	Best	Lowest unit price	Order	Line Cost €
	Qty	Fait Haille	Code	Fait Number	€	MOQ	Code / Part Number	€	MOQ	1111	SIVID	Supplier	€	Qty	Line Cost €
94		100K 1% 100K 1%													
		100K 1%													
	_	10011 170	223-0691	CRG0805F100K	0,007	50	SMD0805-100K-1%	0,008	100		15	RS	0,007 €	15	0,105
05	2	100K 0.1%	666 0670	CDE000ED400K	0 112	-	DN72C2A400KDTDE	0.512	2		4	Mouser	0.005.6	4	0.200
95	2	100K 0.1%	666-2673	CPF0805B100K E	0,112	5	RN73C2A100KBTDF	0,513	2		4	Mousei	0,095€	4	0,380
96		100R 1%													
		100R 1%													
	3	100R 1%	679-0807	CRCW0805100	0,031	F 0	RC0805FR-07100R	0,008	100		8	Formall	0,002€	10	0,020
			079-0007	RFKEA	0,031	50	KC0003FK-07100K	0,006	100		0	Farnell	0,002 €	10	0,020
97		10K 1%													
	5	10K 1%													
	18	10K 1%													
			223-0562	CRG0805F10K	0,021	50	RC0805FR-0710K	0,008	100		43	TME	0,008€	50	0,385
98	1	10R 1%													
30		10R 1%													
			740-9085	CR1206-FX-	0,028	50	CRCW120610R0FKTA	0,014	100		7	TME	0,014 €	10	0,137
				10R0ELF			BC								
99	1	12K4 1%	679-0863	CRCW080512K	0,008	50					1	Farnell	0,002€	10	0,023
55		1214 170	070 0000	4FKEA	0,000	00					•	Tarrion	0,002 C	10	0,020
100	1	18-22R / 7W	199-8087	SQMW722RJ	0,725	5	-			1		Mouser	0,378 €	1	0,378
101	2	16K 1%	679-0920	CRCW080516K	0,014	50	SMD0805-16K-1%	0,008	100		4	Farnell	0,002€	10	0,020
101	_	10K 1/0	019-0920	0FKEA	0,014	30	3WD0003-10K-176	0,000	100		7	1 amen	0,002 €	10	0,020
102	4	180R 1%	223-0326	CRG0805F180R	0,006	50	SMD0805-180R-1%	0,008	100		4	Farnell	0,024 €	10	0,240
103	2	1K 1%													
103		1K 1%													
		1K 1%													
			223-0427	CRG0805F1K0	0,013	50	RC0805FR-071K	0,008	100		14	TME	0,008 €	15	0,116
104	2	1K8 1%													
		1K8 1%													
			679-1033	CRCW08051K8	0,011	50	SMD0805-1K8-1%	0,008	100		6	Farnell	0,006 €	10	0,063
				0FKEA											
105	2	1R 1%	721-5631	ERJ6BQF1R0V	0,246	5	RC0805FR-071R	0,009	100		2	Farnell	0,002€	10	0,022
	_				3,2 .0	-		3,000			-		2,302 C	. •	0,022

								Farnell / Element	t14		Digi-Key	,		Mouser	,	
#	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
106	2 2	24K <mark>0.1%</mark>	0805	R44, R54	Power board	4	1670195	ERA3AEB243V	0,184 1	0	YAG1843CT-ND	0,330	1	660- RN732ATTD2402 B25	0,292	1
107	2 2	22R 1%	0805	R124, R125	AUX PS	2	2447609	MCWR08X22R0FT L	0,007 1	0	0603YC104KAT2 A	0,090	1	603-RC0805FR- 0722RL	0,094	1
108	11 2	220R 1%	0805	R21, R31, R35, R36, R41, R47, R57, R76, R77, R79, R80	Power board	22										
	3 2	220R 1%	0805	R110, R113, R118	AUX PS	3										
	1 :	220R 1%	0805	R166	Arduino Shield	1 26	1099795	WCR0805-220RFI	0,024 1	0	RC0805FR- 07220RL	0,019		RC0805FR- 07220RL	0,015	
109	2 '	2K 0.1%	0805	R60, R70	Power board	4	1670231	ERA6AEB202V	0,259 1	^	P2.0KDACT-ND	0,370	1	667-ERA-	0,547	1
		2K 0.1% 2K2 1%	0805	R106, R107, R119	AUX PS	3	10/0231	ERAUAEDZUZV	0,259	U	PZ.UNDAC I-ND	0,370	'	007-ERA-	0,547	
110		2K2 1%	0805	R29, R30, R32, R45, R59, R61, R64, R90, R93	Power board	18										
						21	9237534	RC0805FR-072K2L	_ 0,011 1	0	RC0805FR- 072K2L	0,019		RC0805FR- 072K2L	0,015	
111	1 :	2R2 5% / 2W	2512	R26	Power board	2	1376975	RC2512JK- 7W2R2L	0,557 1	0	CRM2512-JW- 2R2ELF	0,320		CRM2512-JW- 2R2ELF	0,341	
112	3	330K 1%	0805	R13, R20, R25	Power board	6	9333070	MC01W08051330K	0,002 1	0	RC0805FR- 07330KL	0,090	1	RC0805FR- 07330KL	0,091	1
113	2 :	330R 1%	0805	R83, R101	Power board	4	9333037	MC01W08051330R	0,002 1	0	RC0805FR- 07330RL	0,090		RC0805FR- 07330RL	0,091	
114	4	330R 5% / 2W	2512	R104, R105, R108, R111	AUX PS	4	1265196	3520330RJT	0,122 1	0	RHC2512FT330R	0,760		3521330RFT	0,580	
115	2 4	470R 1%	0805	R37, R50	Power board	4	1099798	WCR0805-470RFI	0,024 1	0	RC0805FR- 07470RL	0,019		RC0805FR- 07470RL	0,015	
116	2 4	47K 1%	0805	R154, R158	Arduino Shield	2										
	7 4	47K 1%	0805	R5, R66, R67, R85, R86, R87, R100	Power board	14										
						16	2447664	MCWR08X4702FT L	0,006 1	0	RC0805FR- 0747KL	0,019		RC0805FR- 0747KL	0,015	
117	11 4	4K7 1%	0805	R126, R127, R128, R131, R133, R136, R137, R156, R159, R161, R162	Arduino Shield	11										
	1 4	4K7 1%	0805	R16	Power board	2 13	9333266	MC01W080514K7	0,002 1	0	RC0805FR- 074K7L	0,019		RC0805FR- 074K7L	0,015	
118	4	49R9 1%	0805	R138, R140, R141, R142	Arduino Shield	4										
	2 4	49R9 1%	0805	R109, R112	AUX PS	2										
						6	2141727	MC01W0805149R9	0,002 1	0	RC0805FR- 0749R9L	0,019		RC0805FR- 0749R9L	0,015	
119	1	51K 1%	0805	R48	Power board	2	9334653	MC01W0805551K	0,015 1	0	RC0805FR- 0751KL	0,019		RC0805FR- 0751KL	0,015	
120	2	5K1 1%	0805	R84, R97	Power board	4	9333320	MC01W080515K1	0,002 1	0	RC0805FR- 075K1L	0,019		RC0805FR- 075K1L	0,015	
121	2	5K6 1%	0805	R115, R117	AUX PS	2										
	2 :	5K6 1%	0805	R88, R99	Power board	4										

				RS Componer	its		TME			//gitriub.com/	•	ice calcula	tion fo	r 1 set
#				No Componer								Lowest		. 301
	Qty	Part name	Code	Part Number	Unit price €	MOQ		Unit price €	MOQ	THT SMD	Best Supplier	unit price €	Order Qty	Line Cost €
106	2	24K 0.1%					AR0805-24K-0.1%	0,111	10	4	TME	0,111 €	4	0,442
107	2	22R 1%	223-0203	CRG0805F22R	0,006	50	SMD0805-22R-1%	0,008	100	2	RS	0,006 €	2	0,012
108	11	220R 1%												0,000
		220R 1%												
	1	220R 1%												
			223-0332	CRG0805F220R	0,024	50	RC0805FR-07220R	0,007	100	26	TME	0,007€	50	0,357
109	2	2K 0.1%	828-0554	ERA6AEB202V	0,230	5	AR0805-2K-0.1%	0,113	10	4	TME	0,113 €	4	0.450
110		2K2 1%	020-0004	ERAUAED2U2V	0,230	5	AR0003-2R-0.1%	0,113	10	4	IIVIE	0,113 €	4	0,452
		2K2 1%												
	·	2.12 1.70												
			679-1207	CRCW08052K2 0FKEA	0,027	50	SMD0805-2K2-1%	0,008	100	21	TME	0,008€	30	0,242
						_								
111	1	2R2 5% / 2W	720-3231	CRM2512-JW- 2R2ELF	0,406		WF25P-2R2-5%	0,042		2	TME	0,042€		0,084
112	3	330K 1%	679-1272	CRCW0805330 KFKEA	0,024	50	RC0805FR-07330K	0,007	100	6	Farnell	0,002€	10	0,020
113	2	330R 1%	740-9022	CR0805-FX- 3300GLF	0,025	50	RC0805FR-07330R	0,007	100	4	Farnell	0,002€	10	0,020
114	4	330R 5% / 2W	755-1224	3521330RFT	0,182	10	WF25P-330R-5%	0,042	50	4	TME	0,042€	10	0,419
115	2	470R 1%	223-0376	CRG0805F470R	0,024	50	RC0805FR-07470R	0,007	100	4	TME	0,007€	10	0,073
116	2	47K 1%												
	7	47K 1%												
			679-1434	CRCW080547K 0FKEA	0,010	50	RC0805FR-0747K	0,007	100	16	Farnell	0,006 €	20	0,126
117	11	4K7 1%												
	1	4K7 1%												
			223-0528	CRG0805F4K7	0,011	50	RC0805FR-074K7	0,008	100	13	Farnell	0,002€	20	0,040
118		49R9 1%												
	2	49R9 1%									_			
			679-1462	CRCW080549R 9FKEA	0,011	50	RC0805FR-0749R9	0,007	100	6	Farnell	0,002€	10	0,020
440	4	E41/ 40/	670 4505	CDCM/00055414	0.000	E0	DOMMET AZEAN	0.000	100	•	TNAC	0.000.0	10	0.004
119		51K 1%	679-1525	CRCW080551K 0FKEA	0,020		RC0805FR-0751K	0,006		2	TME	0,006€		0,061
120		5K1 1%	679-1569	CRCW08055K1 0FKEA	0,027	50	RC0805FR-075K1	0,007	100	4	Farnell	0,002€	10	0,021
121		5K6 1%												
	2	5K6 1%												

								Farnell / Element	:14		Digi-Key	1	Mouse	r	
#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MC	Q	Part Number	Unit price MOQ	Part Number	Unit price €	10Q
						6	2447693	MCWR08X5601FT L	0,006 1	0	RC0805FR- 075K6L	0,019	RC0805FR- 075K6L	0,015	
122		750R 1% 750R 1%	0805 0805	R46, R89, R96 R152, R153	Power board Arduino Shield	6									
	۷	730K 1%	0805	K132, K133	Ardulilo Sillela	8	9333525	MC01W08051750R	0,002 1	0	RC0805FR- 07750RL	0,019	RC0805FR- 07750RL	0,015	
123	2	7K5 0.1%	0805	R39, R52	Power board	4	1670239	ERA6AEB752V	0,312 1	0	RT0805BRD077 K5L	0,350	RT0805BRD077 K5L	0,357	
124	2	82R 0.1%	0805 / 0603	R62, R71	Power board	4	1577592	ERA3AEB820V	0,185 1	0	P82DBCT-ND	0,370 1	667-ERA- 6AEB820V	0,547	1
125	1	0R010 1% / 2W	2512 or 1206 / min 1W	R4	Power board	2	1435947	CRA2512-FZ- R010ELF	0,484 1	0	CRA2512-FZ- R010ELF	0,540	CRA2512-FZ- R010ELF	0,568	
126	1	0R020 1% / 2W	2512, 2W	R65	Power board	2	2079436	LRMAM2512- R02FT4	0,250 1	0	CRA2512-FZ- R020ELF	0,540	CRA2512-FZ- R020ELF	0,568	
127	1	0R2 1%	1210	R63	Power board	2	1892932	ERJ3BSFR20V	0,263 1	0	311-0.2NACT-ND	0,530 1	756-LCS1206- R20FT3	0,179	1
128	2	4x10K 5%	1206; resistor array	RN1, RN2	Arduino Shield	2	1770137	CAY16-103J4LF	0,110 1	0	CAY16-103J4LF	0,090	CAY16-103J4LF	0,095	
129	1	CG2-470L	THT	SAR1	AUX PS	1	1846854	2027-47-BLF	1,850 1	ı	2027-47-BLF	1,270	2027-47-BLF	1,340	
130	1	LD-BZEN-0903	THT	SP1 Buzzer	Arduino Shield	1	-				-		TE092703-6	2,200	
131	1	A101SYCQ04	THT, solder on the bottom layer . See pic here.	SW1	Arduino Shield	1	2292959	A101SYCQ04	2,760 1	ı	A101SYCQ04	3,000	A101SYCQ04	2,640	
132	1	EC12E20-24P24C-SW or PEC11R-4220F-S0024	r THT	SW2 incremental encoder	Arduino Shield	1	2663527	PEC11R-4220F- S0024	2,100 1		EN12-HS22AF20	1,000 1	858-EN12- HS22AF20	1,050	1
133	1	1301.9316	SMD; tactile switch	SW3	Arduino Shield	1	1217765	1301.9316	0,302 1	l	FSM6JSMA	0,210	1301.9316	0,270	
134	1	VTX-214-005-0512	THT	TR1	AUX PS	1	2627176	VTX-214-005-0512	5,980 1	l	-		-		
135	2	ERZE14A431	THT	VAR1, VAR2	AUX PS	2	2291852	ERZE14A431	0,546 1	ı	P15589-ND	0,990 1	667-ERZ- E14A431	0,905	1
136		ERZE11A431	THT	VAR3, VAR4	AUX PS		2291831	ERZE11A431	0,418 1	l	P16688-ND	0,470 1	667-ERZ- E11A431	0,472	1
137	1	39-30-1039	THT 4,2mm 3-pin	X1	Power board	2	2425045	39-30-1039	0,550 1		WM18442-ND	0,630 1	538-39-30-1039	0,000	1
138	1	2411-01	THT, solder on the bottom layer!	X11 USB Connector	AUX PS	1	1177884	2411-01	1,050 1	l	952-1767-ND	0,730	710- 61400413321	1,200	
139	4	ZL305-08 (or similar with 0.1" raster and 5mm height)	THT, solder on the bottom layer ! Two headers per one connector.	X12, X14 Front Treminal	Arduino Shield	4	-				-		-		
140	2	TSW-113-07-F-D	THT; 2x13-pin header	X13, X15 Power board main connectors	Arduino Shield	2	2025182	TSW-113-07-F-D	2,240 5	5	TSW-113-07-L-D	2,470	710- 61302621121	1,410	
141	1	22-23-2021	THT	X17 AUX temp	Arduino Shield	1	1462926	22-23-2021	0,100 1	١	22-23-2021	0,140	22-23-2021	0,141	
142	1	MC34753	THT	X18, 8-pin header, angled	Arduino Shield	1	1593431	MC34753	0,422 1	0	M20-9750846	0,230	710- 61300811021	0,670	
143	1	SSW-113-02-T-D-RA	THT; 2x13-pin socket	X2	Power board	2	1805583	SSW-113-02-G-D- RA	5,700 2		SSW-113-02-G- D-RA	5,340	-		
144	1	39-30-3055	THT 4,2mm 5pin	X3 AC In	AUX PS	1	9963561	39303055	0,530 1	ı	39-30-3055	1,180	39-30-3055	0,923	
	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	l	09185107324	1,460	09185107324	1,460	
145	1	22-23-2031	THT	X4 FAN Connector	AUX PS	1	1462950	22-23-2031	0,081 1	ı	22-23-2031	0,210	22-23-2031	0,198	

				RS Componer	nte		TME	urce code a	i mipo	J	0.0011110	•	rice calcula	ition fo	r 1 sot
#				NO Componer	Unit price			Unit price					Lowest		1 300
	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	unit price €	Order Qty	Line Cost €
			679-1572	CRCW08055K6 0FKEA	0,021	50	SMD0805-5K6-1%	0,008	100		6	Farnell	0,006 €	10	0,063
122	3	750R 1%													
122		750R 1%													
	_		679-1660	CRCW0805750 RFKEA	0,010	50	CRCW0805750RFKTA BC	0,012	100		8	Farnell	0,002€	20	0,040
123	2	7K5 0.1%	666-2588	CPF0805B7K5E	0,280	5	RN73C2A7K5BTDF	0,520	2		4	RS	0,280 €	5	1,400
124	2	82R 0.1%	565-863	ERA6AEB820V	0,046	5	AR0805-82R-0.1%	0,113	10		4	RS	0,046€	10	0,460
125	1	0R010 1% / 2W	693-4381	CRA2512-FZ- R010ELF	0,515	5	LRP2512-R010-1%	0,151	5		2	TME	0,151 €	5	0,754
126	1	0R020 1% / 2W	693-4384	CRA2512-FZ- R020ELF	0,507	5	WW25NR020FTL	0,189	5		2	TME	0,189€	5	0,945
127		0R2 1%	721-5892	ERJ8BSFR20V	0,272		CS1210S2-0R2-1%	0,118			2	TME	0,118€	5	0,589
128		4x10K 5%	522-5585	CAY16-103J4LF	0,020		DR1206-10K-4/8	0,007			2	TME	0,007 €	2	0,013
129	1	CG2-470L	878-3652	CG2-470L	2,279	10	CG2-470L	1,450	1	1		Digikey	1,270 €		1,270
130 131	1	LD-BZEN-0903 A101SYCQ04	- 710-9788	A101SYCQ04	2,576	1	LD-BZEN-0903	0,504	3	1		TME RS	0,504 € 2,576 €	3 1	1,512 2,576
131		Alululuqu	710-3700	Alululuqu	2,370	'						110	2,570 C	ı	2,570
132	1	EC12E20-24P24C-SW or PEC11R-4220F-S0024	737-7767	PEC11R-4220F- S0024	1,160	1	EC12E20-24P24C-SW	1,024	1	1		Digikey	1,000€	1	1,000
133	1	1301.9316	718-2443	FSM6JSMATR	0,818	5	1301.9316	0,220	5		1	Digikey	0,210€	1	0,210
134	1	VTX-214-005-0512	-				-			1		Farnell	5,980 €	1	5,980
135	2	ERZE14A431	785-8960	ERZE14A431	0,928	5	-			2		Farnell	0,546 €	2	1,092
136	2	ERZE11A431	785-8904	ERZE11A431	0,249	25	-			2		RS	0,249 €	2	0,498
137	1	39-30-1039	670-5751	39-30-1039	0,550	5	MX-5566-03A3	0,498	1	2		TME	0,498 €	2	0,996
138	1	2411-01	-				2411-01	0,660	1	1		TME	0,660 €	1	0,660
139	4	ZL305-08 (or similar with 0.1" raster and 5mm height)	-				ZL305-08	0,560	1	4		TME	0,560 €	4	2,240
140	2	TSW-113-07-F-D	-				-			2		Mouser	1,410€	2	2,820
141	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
142	1	MC34753	828-1673	61300811021	0,759	5				1		Digikey	0,230 €	1	0,230
143	1	SSW-113-02-T-D-RA	-				ZL263-26DG	0,399	2	2		TME	0,399€	2	0,798
144	1	39-30-3055	670-5861	39-30-3055	0,563	5	-			1		Farnell	0,530 €	1	0,530
		09185107324 09185107324													
			740-7108	09185107324	1,442	1	T821-1-10-S1	0,290	2	2		TME	0,290 €	2	0,580
145	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

								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
146	1	CTB9300/3A	THT	X6 DOUT2 Connector	AUX PS	1	3882044	CTB9300/3A	0,176 1	ED2800-ND	0,350 1	710- 691311700103	0,620 1
147	1	LMJ2138814S0L1T1C	THT, solder on the bottom layer!	X7 RJ45 Connector	AUX PS	1	-			-		-	
148	1	826629-8	THT 8-Pin Header	X8	AUX PS	1							
	5	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
149	1	826629-6	THT 6-Pin Header	MCU-POWER	Arduino Shield	1	1022255	M20-9990646	0,161 10	952-2270-ND	0,220 1	855-M20- 9990646	0,226 1
150		10-89-7361	THT 2x18-Pin Header	MCU-DIGITAL	Arduino Shield	1	2356147	61303621121	1,580 1	WM50022-36-ND	3,020 1	538-10-89-7361	1,680 1
151		826629-5	THT 5-Pin Header	X10	AUX PS		2452473	826629-5	0,631 50	826629-5	0,660	M20-9990545	0,217
152		32.768kHz	THT	Y1	Arduino Shield	1	1611828	AB38T-32.768KHZ	0,185 1	AB38T- 32.768KHZ	0,150	AB38T- 32.768KHZ	0,155
153	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
154	1	SMAJ51A	DO-214AC	ZD1	Power board	2	1578999	SMAJ51A	0,163 5	SMAJ51ALFCT- ND	0,370 1	576-SMAJ51A	0,405 1
155	5	SMAJ18A	DO-214AC	ZD8, ZD9, ZD11, ZD12, ZD14	Arduino Shield	5							
	1	SMAJ18A	DO-214AC	ZD6	AUX PS	1							
						6	1749305	SMAJ18A-TR	0,070 10	SMA6J18A-TR	0,340	SMA6J18A-TR	0,407
156	1	BZX384-C4V3	SOD-323	ZD13	Arduino Shield	1	8735697	BZX384-C4V3	0,182 5	MM3Z4V3T1G	0,130	BZX384- C4V3,115	0,110
157		BZX384-C15.115	SOD-323	ZD2	Power board	2	8735506	BZX384-C15	0,182 5	MM3Z15VT1G	0,130	MM3Z15VT1G	0,118
158		PDZ6.2B	SOD-323	ZD3	Power board	2	1757863	PDZ6.2B,115	0,266 5	MM3Z6V2T1G	0,130	MM3Z6V2T1G	0,118
159		P4SMAJ48A	DO-214AC	ZD7, ZD10	Arduino Shield	2	1749310	SMAJ48A-TR	0,264 1	SMAJ48A-TR	0,340	SMAJ48A-TR	0,340
160	2	1.5KE400CA	THT	ZD4, ZD5	AUX PS	2	2341650	1.5KE400CARL	0,777 1	1.5KE400CA-TP	0,560	1.5KE400CA-TP	0,549
		Not installed	0005 501/	04044 04004									
		1u 50V X7R	0805, 50V	C104A, C109A	Arduino Shield	2							
		n.c.	0805	C12	Power board	2	-						
	1		0805	C149	Arduino Shield	1	-						
	4		0805	C142, C143, C147, C148	Power board	8	-						
		n.c.	1206	C144	Power board	2	-						
		2m2	THT, Ø18mm, solder on bottom layer!	C145, C146	Power board	4	-						
		470n 50V X7R	0805, 50V	C150, C153	Arduino Shield	2							
		4n7 100V X7R	0805	C151, C152	Arduino Shield	2							
		100n	0805	C154	Arduino Shield	1	-						
		220n X7R	0805	C155	Arduino Shield	1	-						
		1uF/50V Tant.	6032	C27	power bord	1	-						
	1		0805	C62	Power board	2	-						
		SMBJ5.0A-TR	DO-214AA	D17	Arduino Shield	1	-						
	4	STPS15H100	TO-252	D22, D23, D24, D25	Power board	8	-						

				RS Compone	nts		TME					P	rice calcula	tion fo	r 1 set
#								Unit price				Best	Lowest	Order	
	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Supplier	unit price €	Qty	Line Cost €
146	1	CTB9300/3A					TBG-5.0-PW-3P	0,114		1		TME	0,114 €	1	0,114
147	1	LMJ2138814S0L1T1C	-				RJ45-TRAFO-LP	2,820	1	1		TME	2,820 €	1	2,820
148	1	826629-8													
	5	826629-8													
			681-2997	M20-9990845	0,125	10	ZL201-08G	0,065	10	6		TME	0,065€	10	0,649
149	1	826629-6	745-7062	M20-9990646	0,244	10	ZL201-06G	0,037	10	1		TME	0,037 €	1	0,037
150	1	10-89-7361	828-1569	61303621121	1,626	1	-			1		Farnell	1,580 €	1	1,580
151	1	826629-5	681-2981	M20-9990545	0,160		ZL201-05G	0,032		1		TME	0,032 €		0,032
152	1	32.768kHz	226-1443	LFXTAL002995	0,532	1	32.768K-TC38	0,144		1		TME	0,144 €		0,144
153	1	25MHz	814-9550	QCS25.0000F18 B23R	0,217	10	25.00M-SMDHC49S	0,373	2		1	RS	0,217 €	1	0,217
154	1	SMAJ51A	687-3309	SMAJ51A R3	0,073	25	SMAJ51A-LF	0,175	3		2	RS	0,073 €	2	0,146
155	5	SMAJ18A													
	1	SMAJ18A													
			795-9268	SMA6J18A-TR	0,112	25	P4SMAJ18A-DIO	0,105	5		6	Farnell	0,070 €	6	0,420
156	1	BZX384-C4V3	508-696	BZX384-C4V3	0,013	100	BZT52C4V3-DIO	0,019	25		1	RS	0,013€	1	0,013
157	1	BZX384-C15.115	802-4568	MM3Z15VST1G	0,013	200	BZX384-C15.115	0,019	25		2	RS	0,013€	2	0,026
158	1	PDZ6.2B	725-8247	PDZ6.2B,115	0,014	100	PDZ6.2B	0,019	25		2	RS	0,014 €	2	0,028
159		P4SMAJ48A	687-3286	SMAJ48A	0,098		P4SMAJ48A-DIO	0,102	5		2	RS	0,098€	2	0,196
160	2	1.5KE400CA	486-4381	1.5KE400CA	0,781	5	1.5KE400CA	0,256	3	2		TME	0,256 €	2	0,512
									3	57	659				199,32 €
		Not installed													
	2	1u 50V X7R									2				
	1	n.c.									2				
	1	1u					-				1				
	4	1n									8				
	1	n.c.									2				
	2	2m2					-			4					
	2	470n 50V X7R									2				
	2	4n7 100V X7R									2				
	1	100n					-				1				
	1	220n X7R									1				
	1	1uF/50V Tant.									1				
	1	n.c.					-				2				
	1	SMBJ5.0A-TR									1				
	4	STPS15H100					-				8				

							Farnell / Element	:14		Digi-Ke	у	Mouse	r	
Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price €	1OQ	Part Number	Unit price MOC	Part Number	Unit price €	MOQ
	74LVC1G125GW.125	TSSOP-5	IC33	Arduino board	1	-								
1	TPA6205A1DGN	MSOP-8	IC34	Arduino board	1	-								
1	693072010801	Micro SD card	J7	Arduino board	1	-								
1	HSMY-C170	0805 Yellow	LED	Power board	2	-								
	n.c.	0805	R1	Power board	2	-								
	1R 1%	0805	R136A, R140A	Arduino Shield	2									
	47K 1%	0805	R160, R174	Arduino Shield	2									
	n.c.	1206	R167	Power board	2	-								
	12K	1208	R168	Power board	2	-								
	20K 1%	0805	R169, R175	Arduino board	2									
	1K 1%	0805	R170, R171	Arduino Shield	2									
	10K 1%	0805	R172, R173	Arduino Shield	2									
	n.c.	0805	R2, R14	Power board	4	-								
1	LD-BZEN-0903	THT	SP2, if used mount SP1 on this position	Arduino Shield	1	-								
1	826629-5	ТНТ	X9	AUX PS	1	-								
1	282836-2	THT	X19	Power board	2	-								
1	PCA-6B-20-HL-3 or 52746-2071	SMT	X20 3.5" Riverdi TFT LCD	Arduino board	1	-								
1	FFC 20-pin cable 150 mm		3.5" Riverdi TFT LCD	Arduino board	1	-								
1	n.c.		ZD15	Power board	2	-								
	Power module AC input					ı						1		
2	2200uF 63V	THT, solder on bottom layer!		Power board	4	1822562	UVR1J222MHD	2,540	1	UVR1H222MHD	1,680	UVR1H222MHD	1,710	
	Option #1: UVZ1H222MHD	THT, solder on bottom layer!	C145, C146	Power board	0	1822570	UVZ1H222MHD	2,420	1	UVZ1H222MHD	1,500	UVZ1H222MHD	1,690	
	Option #2: UVZ1J222MHD	THT, solder on bottom layer!	C145, C146	Power board	0	1822575	UVZ1J222MHD	2,420	1	UVZ1J222MHD	2,210	UVZ1J222MHD	2,780	
4	STPS15H100	TO-252	D22, D23, D24, D25	Power board	8	2344052	STPS15H100CB- TR	1,070	1	STPS15H100CB	0,900	STPS15H100CB	0,896	
1	12K 1%	1206	R168	Power board		1100220	WCR1206-12KFI	0,026		RC1206FR- 0712KL	0,090	RC1206FR- 0712KL	0,091	
1	282836-2	THT, Terminal Block	X19	Power board		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	1
	Option #1: MEAN WELL LRS-150F-48	Power module 48VDC; 3.3A (auto-range)		Power board	0	-				-		LRS-150F-48	28,190	1
0	Heatsink 70 x 120 mm	Not required if Varisom enclosure kit is purchased!		Power board	0	-				-		-		
	Arduino Due 3.2" TFT LCD			Arduino Shield Arduino Shield	1 1	2250861 -	A000062	40,660	1					
1	Varisom enclosure kit	Enclosure, AC/DC mounting rail, TFT display mounting rail, handles, foot		Enclosure	1	-								
1	PCB+PCBA			Enclosure	1	-								

			RS Componer	nts		TME	arce code a	-				rice calcula	tion fo	r 1 set
			ito componer									Lowest		
Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	unit price €	Order Qty	Line Cost €
1	74LVC1G125GW.125									1				
1	TPA6205A1DGN									1				
1	693072010801													
1	HSMY-C170									2				
1	n.c.									2				
2	1R 1%									2				
2	47K 1%									2				
1	n.c.					-				2				
1	12K					-				2				
2	20K 1%									2				
2	1K 1%									2				
2	10K 1%									2				
2	n.c.					-				4				
1	LD-BZEN-0903								1					
1	826629-5					-			1					
1	282836-2					-			2					
1	PCA-6B-20-HL-3 or 52746-2071									1				
1	FFC 20-pin cable 150 mm													
1	n.c.					-				2				
2	Power module AC input 2200uF 63V	862-3229	UVR1H222MHD	0.456	1	UVR1H222MHD	1 100	1	ı		I			
				2,156			1,100							
	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	6,37
4	STPS15H100	795-9075	STPS15H100CB -TR	0,924	5	-				8	Mouser	0,896€	8	7,16
1	12K 1%	223-2401	CRG1206F12K	0,008	50	RC1206JR-0712K	0,006	100		2	TME	0,006€	2	0,01
1	282836-2	361-7667	282836-2	0,414	5	282836-2	0,280	2	2		TME	0,280€	2	0,56
1	INDEL TST450/014					TST450/014	36,500	1	1		TME	36,500 €	1	36,50
	Other													
1	MEAN WELL LRS-150-48	l -				LRS-150-48	15,100	1	-		TME	15,100 €	2	30,20
	Option #1: MEAN WELL LRS-150F-48	-				LRS-150F-48	18,000	1	-					
0		-				RAD-A4463/120	1,370	1	-					0,00
1	Arduino Due	769-7412	A000062	33,680	1	Itead/Eckstein	19,480		_		TME	19,480 €	1	19,48
	3.2" TFT LCD	· · · -		23,000		Itead/Eckstein	12,140		-		TME	12,140 €		12,14
	Varisom enclosure kit						_,		-			,		,
1	PCB+PCBA								-					

Nuis & Boils 1 274 fan 00x00mm								Farnell / Elemen	nt14	Digi-K	ey	Mouse	r
1	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ €	Part Number	Unit price MOQ €	Part Number	Unit price MO0
1		No. 40 Pholés											
First Fasterer for fam	1				Enclosure	1	I				ĺ		
FoO-09			Fastener for fan				_			_		_	
height power modules QA mounting on height power modules QA mounting on heatstank processing the power modules QA mounting on heatstank processing paid (20 x 75 mm Fick thermal miles) paid (20 x 75 mm Fick thermal miles) paid (20 x 75 mm) power processing paid (20 x 75 mm) power paid (20 x 75 mm) power processing paid (20 x 75 mm) power processing paid (20 x 75 mm) power processing paid (20 x 75 mm) power paid (20 x 75 mm) power processing paid (20 x 75 mm) power pro							2292912	MC32696	0,567 1	-		-	
2 0. Arm thermal silicone pad to relativish on hestsisk mounting on hestsisk mounting pad mounting on hestsisk mounting on hestsisk mounting pad mounting on hestsisk mounting pad from pad from the hestsisk pad from the hestsisk mounting pad from pad from the hestsisk pad from	2			X12, X14 Front Treminal	Arduino Shield	2	2007972	MC000006	1,900 1	-		-	
Silicone pad (20 x 75 mm) Francisco	2	0.4 mm thermal silicone	Power module's Q4 mounting		Enclosure	2							
1 B.S.244DSM-G	2	silicone pad (20 x 75		Search AliExpress, eBay, etc.	Enclosure	2							
2 BS-24DSN-B Binding posts Arm, black J4, J6 Arduno Shield 5 Washers gring M5 Binding posts Arduno Shield 5 For Washers gring M5 Binding posts Arduno Shield 5 For M3x5 countersunk, black Rear and front panel Finds Finish Arduno Shield 5 For M3x5 countersunk, black For M3x5 countersunk,	2		Binding post 4mm, red	J1, J5	Arduino Shield	2	-						
5 Maxier spring M5 Binding posts Rear and front panel Enclosure 2 Infinish Page and profit panel Enclosure 2 Infinish Page and Enclosure 2 Infinish Page 2 Maxier countersunk, black AC/DC mounting rail Enclosure 4 Infinish Page 2 Maxier countersunk, black AC inlet Enclosure 2 Page 2 Maxier countersunk, black Page 2 Page 2 Maxier countersunk, black Page 2 Pag	1				Arduino Shield	1	-						
Enclosure Section Se	2	BS-244DSM-B	Binding post 4mm, black	J4, J6	Arduino Shield	2	-						
Maxis Countersunik, black AC/ICC mounting rail Enclosure 2	5	Washer, spring M5	Binding posts		Arduino Shield	5	-						
Mask Countersunk, black Terf display mounting rail Enclosure 4 Mask Countersunk, black AC inlet Enclosure 2 Enclosure 8 Enclosure 8 Mask Countersunk, black Power board top and bottom plates Enclosure 8 Mask Countersunk, black Power board top and bottom plate Enclosure 8 Mask Countersunk, black Power board top and bottom plate Enclosure 4 Washer externally serrated MS, D=6mm Power module's Q4 mounting Enclosure 2 Wissher externally serrated MS, D=6mm Power module's Q4 mounting Enclosure 2 Washer externally on heatsink Enclosure 4 Washer MS, Bmm Enclosure Enclosure 4 Washer MS, Bhack finish AUX PS Enclosure Enclosure 4 Washer MS, Bhack finish Enclosure Enclosure 4 Washer MS, Bhack finish Enclosure Enclosure 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Enclosure Enclosure 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power module mounting on heatsink Power board 4 Washer MS, Bhack finish Power		finish	·		Enclosure	2							
M3x5 countersunk, black AC inlet Enclosure 2		finish			Enclosure	2							
British Standard	4		TFT display mounting rail		Enclosure	4							
M3x5 countersunk, black Power board top and bottom Enclosure 8		finish											
finish plate mounting Front panel handles Enclosure May 6 Front panel handles Enclosure Enclosu		finish											
4 M4x6 Front panel handles Enclosure 4 1 Washer externally serrated M3, D=6mm Power module's Q4 mounting on heatsink 2 Washer externally serrated M3, D=6mm Power module's Q4 mounting on heatsink 2 M3x12, cheese head Power module's Q4 mounting on heatsink 2 M3x12, cheese head Power module's Q4 mounting on heatsink 4 Washer M3, 8mm Enclosure feet Enclosure 4 5 M3x8, black finish Three part heatsink joints Power board 4 4 M3x8, black finish Enclosure feet Enclosure 4 6 M3x8, black finish Enclosure feet Enclosure 4 7 M3x8, black finish Power module mounting on heatsink Power board 8 8 heatsink 21 - 5 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4	8				Enclosure								
1 Washer externally serrated M3, D=6mm Power module's Q4 mounting on heatsink Power module's Q4 mounting On heatsink Power module's Q4 mounting On heatsink Power module Power board						26	-						
Earth connection Enclosure 1 Vasher externally serrated M3, D=6mm Power module's Q4 mounting on heatsink Enclosure Vasher externally serrated M3, D=6mm Power module's Q4 mounting on heatsink Enclosure Enclosure 2 Vasher M3, D=6mm Power module's Q4 mounting on heatsink Enclosure 2 Vasher M3, Back finish AUX PS mounting, ext Enclosure 4 Vasher M3, 8mm Enclosure feet Enclosure 4 Vasher M3, 8mm Enclosure feet Enclosure 4 Vasher M3x8, black finish Three part heatsink joints Power board 4 Vasher M3x8, black finish Enclosure feet Enclosure 5 Vasher M3x8, black finish Enclosure 6 Vasher M3x8, black finish Enclosure	4	M4x6	Front panel handles		Enclosure	4	_						
2 Washer externally serrated M3, D=6mm Power module's Q4 mounting on heatsink Enclosure Enclosure Enclosure AUX PS AUX PS AUX PS Power board M3x8, black finish Power module mounting on heatsink Power board M3x8, black finish Power module mounting on heatsink Power board AUX PS Back Finish Power module mounting on heatsink AUX PS Back Finish Power module mounting on heatsink AUX PS Back Finish Power module mounting on heatsink AUX PS Back Finish Back Finish AUX PS Back Finish Back Finish AUX PS Back Finish Back Finish		Washer externally	•										
2 M3x12, cheese head Power module's Q4 mounting on heatsink Washer M3, 8mm Enclosure feet Enclosure 4 5 M3x8, black finish AUX PS mounting, ext AUX PS 5 2 M3x8, black finish Three part heatsink joints Power board 4 4 M3x8, black finish Enclosure feet Enclosure 4 4 M3x8, black finish Power module mounting on heatsink Power board 8 6 M3x8, black finish Power module mounting on heatsink Power board 8 8 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4 8 AUX PS 6 8 AUX PS mounting int AUX PS 5 8 Enclosure 4 8 AUX PS mounting int AUX PS 5 8 Enclosure 4 8 AUX PS mounting int AUX PS 5 8 Enclosure 4 8 M3x5 AC/DC mounting rail	2	Washer externally			Enclosure	2							
on heatsink 4 Washer M3, 8mm Enclosure feet Enclosure 4 5 M3x8, black finish AUX PS mounting, ext AUX PS 5 2 M3x8, black finish Three part heatsink joints Power board 4 4 M3x8, black finish Enclosure feet Enclosure 4 4 M3x8, black finish Power module mounting on heatsink Fower board 8 N3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4 AUX PS 5 Enclosure 4 AUX PS 5 Enclosure 4 AUX PS 5 Enclosure 4 Enclosure 4						3	7096471	6797/3.0	1,870 100				
4 Washer M3, 8mm Enclosure feet Enclosure 4 5 M3x8, black finish AUX PS mounting, ext AUX PS 5 2 M3x8, black finish Three part heatsink joints Power board 4 4 M3x8, black finish Enclosure feet Enclosure 4 4 M3x8, black finish Power module mounting on heatsink 21 - 5 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4 5 Enclosure 4 6 - AUX PS 5 7 AUX PS mounting, int AUX PS 5 7 AUX PS mounting rail Enclosure 4	2	M3x12, cheese head			Enclosure	2	-						
5 M3x8, black finish AUX PS mounting, ext AUX PS 5 2 M3x8, black finish Three part heatsink joints Power board 4 4 M3x8, black finish Enclosure feet Enclosure 4 4 M3x8, black finish Power module mounting on heatsink 21 - 5 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail 5 Enclosure 4	4	Washer M3, 8mm			Enclosure	4	-						
2 M3x8, black finish Three part heatsink joints Power board 4 4 M3x8, black finish Enclosure feet Enclosure 4 4 M3x8, black finish Power module mounting on heatsink 21 5 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4													
4 M3x8, black finish Enclosure feet Enclosure 4 4 M3x8, black finish Power module mounting on heatsink 21 - 5 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4													
4 M3x8, black finish Power module mounting on heatsink Power board 8 heatsink 21 - 5 M3x5 AUX PS mounting, int AUX PS 5						4							
5 M3x5 AUX PS mounting, int AUX PS 5 4 M3x5 AC/DC mounting rail Enclosure 4	4	M3x8, black finish	Power module mounting on		Power board								
4 M3x5 AC/DC mounting rail Enclosure 4						21	-						
4 M3x5 AC/DC mounting rail Enclosure 4	5	M3v5	ALIX PS mounting int		ALIX PS	5							
-													
9 -	4	UNUNU	AO/DO MOUNTING FAIR		LIICIOSUIE								

				RS Compone	nts	TME	arce code at		J		•	rice calcula	tion fo	r 1 set
#				The componen								Lowest		
	ty	Part name	Code	Part Number	Unit price MOQ €	Code / Part Number	Unit price €	MOQ	THT S	SMD	Best Supplier	unit price €	Order Qty	Line Cost €
								-			•			61,82 €
		Nuts & bolts				I								
		12V fan 60x60mm -				MB60251V1-G99		1			TME	2,590 €	1	2,590
		FSP-2 -				FSP-2	0,140				TME	0,140 €	1	0,140
	1	FG-06 -				FG-06	0,513	1			TME	0,513€	1	0,513
:	2	MC000006 -				-					Farnell	1,900 €	2	3,800
:	2	0.4 mm thermal silicone pad				SMICA-SOT93	0,214	10			TME	0,214 €	20	4,270
:	2	5 mm thick thermal silicone pad (20 x 75 mm)												
	2	BS-244DSM-R				BS-244DSM-R	1,120	1			TME	1,120 €	2	2,240
		BS-244DSM-G				BS-244DSM-G		1			TME	1,120 €	1	1,120
_ :		BS-244DSM-B				BS-244DSM-B	1,140	1			TME	1,140 €	2	2,280
		Washer, spring M5				B5/BN672	0,010	100			TME	0,010€	5	0,049
		M3x5 countersunk, black finish												
		M3x5 countersunk, black finish												
•	4	M3x5 countersunk, black finish												
		M3x5 countersunk, black finish												
		M3x5 countersunk, black finish												
	8	M3x5 countersunk, black finish												
						M3X5/D965B	0,013	100			TME	0,013€	26	0,344
	4	M4x6				B4X6/BN3334	0,014	100			TME	0,014 €		0,000
	1	Washer externally serrated M3, D=6mm												
:	2	Washer externally serrated M3, D=6mm												
						B3/BN789	0,008	100			TME	0,008€	3	0,025
:	2	M3x12, cheese head				B3X12/BN272	0,026	200			TME	0,026 €	2	0,051
	4	Washer M3, 8mm				B8X0.4/BN806	0,026	100			TME	0,026 €	4	0,103
	5	M3x8, black finish												
	2	M3x8, black finish												
		M3x8, black finish												
-	4	M3x8, black finish												
						M3X8/D7985B	0,019	100			TME	0,019€	21	0,389
		M3x5												
	4	M3x5												
						M3X5/D7985	0,013	100			TME	0,013 €	9	0,114

							Farnell / Elemen	nt14	Digi-Ke	ey		Mouse	r	
t 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	TFF-M3X40/DR124	40 mm metal spacer, M3 (a pair is required for dual channel)		Enclosure	2	-								
5	Screwed spacer sleeve; hexagonal	14 mm, M3		AUX PS	5	1466812	05.03.143	0,397 4						
5	Screwed spacer sleeve; M5; 8mm; brass	Extend binding post for PCB mounting		Arduino Shield	5	-								
8	Spacer sleeve; 5mm; cylindrical; brass	Power module mounting on heatsink		Enclosure	8	1733405	D01475	0,106 10						
4	???	Spacer between display and Arduino shield		Arduino Shield	4									
12	Light pipe for LED	Round; Ø3mm; Front: convex; straight		Arduino Shield	12	2293496	PLP2-500	0,627 10						
1	Schurter 4304.6090	C14 IEC inlet, switch, 2 fuse drawer is included		Enclosure	1	2080294	4304.6090	9,200 1						
2	4A Fuse	230 VAC		AUX PS	2	-								
	8A Fuse	115 VAC option			0	-								
0,06	CB-HFT50.8/1M-BL	Heat shrink sleeve; 2:1, 50.8mm		AUX PS	0,06	-								
1	A3116068	Encoder knob head		Arduino Shield	1	-			-			-		
1	A3216007	Encoder knob cap; grey		Arduino Shield	1	-			-			-		
1	SD card 8Gb, min. 4Mb/s			Arduino Shield	1	=			-			908- AP8GSDHC4-B	8,710	1
1	CTB92VG/3S	Pluggable terminal block; female; 5mm; angled 90° for DOUT2		AUX PS	1	3881921	CTB92VG/3S	1,070 1						
	Wire harness													
1	10K NTC	AUX temperature sensor		Arduino Shield	1	1187031	NTCLE100E3103J B0	J 0,489 1	BC2301-ND	0,640	1	594-2381-640- 63103	0,245	1
0,03	HIS-1.2/0.6-RD	Heat shrink sleeve; red	AUX temp sensor	Arduino Shield	0,03	-			-			_		
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 X3	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	3-pin receptacle for X4	Cooling fan	AUX PS	1	143127	22-01-2035	0,192 10	22-01-2035	0,310		22-01-2035	0,290	
1	22-01-2025	2-pin receptacle for X17	AUX temp sensor	Arduino Shield	1	143126	22-01-2025	0,179 10	WM2613-ND	0,270	10			
2	NSR-08	Receptacle for X8, X18	Ethernet cable	AUX PS	2									
3	39-00-0078	Pins for X1	DC power input	Power board	6									
5	39-00-0078	Pins for X3	AC power input	AUX PS	5									
					11	9732675	39-00-0078 100рс	13,300 1	39-00-0078	0,144		39-00-0078	0,112	
3	08-50-0114	Pins for X4	Cooling fan	AUX PS	3									
	08-50-0114	Pins for X17	MAIN temperature sensor	Arduino board	2									
						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	BM 91103	Ring terminal; M3; 0.5÷1 mm2	Chassis Earth	Enclosure	1	7356528	LRB-1.0T-M3	0,102 100						

			RS Componer	nte		TME	dice code di	,			•	rice calcula	tion fo	r 1 sat
			No componer			11111						Lowest		1 361
Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	unit price €	Order Qty	Line Cost €
2	TFF-M3X40/DR124					TFF-M3X40/DR124	0,156	10			TME	0,156€	2	0,312
5	Screwed spacer sleeve; hexagonal					B3X14/BN3320	0,309	10			TME	0,309€	5	1,54
5	Screwed spacer sleeve; M5; 8mm; brass					TFM-M5X8/DR218	0,187	10			TME	0,187 €	5	0,93
8	Spacer sleeve; 5mm; cylindrical; brass					DR316/3.2X5	0,057	10			TME	0,057 €	8	0,45
4	???										Farnell	0,000 €	4	0,00
12	Light pipe for LED					PLP2-625	0,331	5			TME	0,331 €	12	3,97
1	Schurter 4304.6090					4304.6090	3,594	1			TME	3,594 €	1	3,59
2	4A Fuse					ZKT-4A	0,095	10			TME	0,095€	2	0,18
	8A Fuse					ZKT-8A/125V	0,094	10			TME	0,094 €	0	0,00
0,06	CB-HFT50.8/1M-BL					CB-HFT50.8/1M-BL	1,241	1			TME	1,241 €	1	1,24
1	A3116068	-				A3116068	1,495	1			TME	1,495 €	1	1,49
1	A3216007	-				A3216007	0,563	1			TME	0,563 €	1	0,56
1	SD card 8Gb, min. 4Mb/s					S400-0080R11	3,840	1			TME	3,840 €	1	3,84
1	CTB92VG/3S					TBW-5.0-3P	0,420	1			TME	0,420 €	1	0,42
						I		!			I			18,96
	Wire harness					T.								
	10K NTC	754-6645	NTCLE100E310 3JB0	0,334	5	NTCLE100E3103JB0	0,269				Mouser	0,245 €	1	0,24
0,03	HIS-1.2/0.6-RD	-				HIS-1.2/0.6-RD	1,295	10			TME	1,295 €	1	
1	39-01-4030	510-9685	39-01-4030	0,232	5	MX-5557-03R2	0,132	5			TME	0,132 €	2	0,26
1	39-01-4050	510-9708	39-01-4050	0,188	5	MX-5557-05R2	0,240	2			RS	0,188 €	1	0,18
1	22-01-2035	296-4940	22-01-2035	0,204	5	MX-6471-031	0,050	10			TME	0,050 €	1	0,05
1	22-01-2025					MX-6471-021	0,048	10			TME	0,048 €	1	
2	NSR-08					NSR-08	0,087	10			TME	0,087 €	2	
3	39-00-0078													
5	39-00-0078													0,00
		215-5887	39-00-0078 100pc	14,100	1	MX-5556-T3L	0,074	10			TME	0,074 €	11	
	08-50-0114													
2	08-50-0114													0,00
		172-9178	08-50-0114	0,085	100	MX-0850-0114	0,047	10			Farnell	0,030 €	5	
21	NDR-T	681-2887	122-4777	0,041	100	NDR-T	0,027	25			TME	0,027€	21	
1	BM 91103					BM 91103	0,048	10			TME	0,048€	1	0,04

							Farnell / Element14		Digi-Key			Mouser		
# Qty	Part name	Package	Reference designator	Board name	Qty	Code	Part Number	Unit price MOQ €	Part Number	Unit price €	Q	Part Number	Unit price N	MOQ
4	BM01148	Female quick disconnect	AC switch patch cables	Enclosure	2									
1	BM01148	Female quick disconnect	AC inlet Earth (Side B)	Enclosure	1									
2	BM01148	Female quick disconnect	Lower AC/DC module power input (Side B)	Enclosure	2									
1	BM01148	Female quick disconnect	Cable set #1	Arduino board	1									
					6	3625424	STO-1.0T-187N-8	0,057 100						
2	H0.75/14D/GY	Bootlace ferrule; insulated, 0.75mm2	Cable set #1	Enclosure	2									
4	H0.75/14D/GY	Bootlace ferrule; insulated, 0.75mm2	Cable set #2	Enclosure	4									
					6	841195	H0,75/14.	0,135 100						
2	H0.75/15D2/GY	Bootlace ferrule, twin entry; insulated, 0.75mm2	Cable set #1	Enclosure	2									
3	H0.75/15D2/GY	Bootlace ferrule, twin entry; insulated, 0.75mm2	Cable set #2	Enclosure	3									
					5	1121751	9037410000	0,120 100						
1	Cat5E cable, stranded wire		Ethernet cable	Arduino Shield	1	1734894	PS11029	1,120 1						
0,0	9 LGY0.75/25-BR	Insulated wire, stranded, brown, 0.75 mm2	AC switch patch cables	Enclosure	0,09									
0,2	LGY0.75/25-BR	Insulated wire, stranded, brown, 0.75 mm2	Lower AC/DC module power input	Enclosure	0,2									
0,0	7 LGY0.75/25-BR	Insulated wire, stranded, brown, 0.75 mm2	Upper AC/DC module power input	Enclosure	0,07									
0,1	1 LGY0.75/25-BR	Insulated wire, stranded, brown , 0.75 mm2	AUX PS module power input	Enclosure	0,11									
					0,47	2528103	PP001205	0,239 1						
0,0	9 LGY0.75/25-BL	Insulated wire, stranded, blue , 0.75 mm2	AC switch patch cables	Enclosure	0,09									
0,2	LGY0.75/25-BL		Lower AC/DC module power input	Enclosure	0,2									
0,0	7 LGY0.75/25-BL		Upper AC/DC module power input	Enclosure	0,07									
0,1	1 LGY0.75/25-BL	Insulated wire, stranded, blue , 0.75 mm2	AUX PS module power input	Enclosure	0,11									
					0,47	2528092	PP001196	0,239 1						
0,4	LGY0.75/25-RD	Insulated wire, stranded, red , 0.75 mm2	Cable set #1, Power board X1 cable	Enclosure	0,4									
0,3	3 LGY0.75/25-RD		Cable set #2, Power board X1 cable	Enclosure	0,33									
					0,73	2528175	PP001270	0,481 1						
0,4	LGY0.75/25-BK	Insulated wire, stranded, black, 0.75 mm2	Cable set #1, Power board X1 cable	Enclosure	0,4									
0,3	3 LGY0.75/25-BK	Insulated wire, stranded, black, 0.75 mm2	Cable set #2, Power board X1 cable	Enclosure	0,33									

			ource code a	πτιμδ	.//yiti/ui	0.0011/6	Price calculation for 1 set						
#		RS Components TME						r 1 Set					
Qty	Part name	Code	Part Number	Unit price € MOC	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
4	BM01148										•		0,000
1	BM01148												0,000
2	BM01148												0,000
1	BM01148												
					BM01148	0,047	10			TME	0,047 €	6	0,281
2	H0.75/14D/GY												
4	H0.75/14D/GY												
					H0.75/14D/GY	0,023	20			TME	0,023 €	6	0,140
2	H0.75/15D2/GY												
3	H0.75/15D2/GY												
					H0.75/15D2/GY	0,036	10			TME	0,036 €	5	
1	Cat5E cable, stranded wire				CA00600.00C01	6,800	1			Farnell	1,120 €	1	1,120
0,09	LGY0.75/25-BR												
0,2	LGY0.75/25-BR												
	LGY0.75/25-BR												
0,11	LGY0.75/25-BR												
					LGY0.75/25-BR	0,340	25			Farnell	0,239 €	1	0,239
	LGY0.75/25-BL												
	LGY0.75/25-BL												
	LGY0.75/25-BL												
0,11	LGY0.75/25-BL				L OVO 75/05 DI	0.040	0.5			E	0.000.6	_	0.000
					LGY0.75/25-BL	0,340	25			Farnell	0,239 €	1	0,239
	LGY0.75/25-RD												
0,33	LGY0.75/25-RD				LOVO 75/05 DD	0.040	0.5			TN4F	0.240.0	4	0.040
•	L 0.V0 75/05 D'.				LGY0.75/25-RD	0,340	25			TME	0,340 €	7	0,248
	LGY0.75/25-BK												
0,33	LGY0.75/25-BK												

							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
						0,73	2528082	PP001186	0,481	1						
	0,4 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	Cable set #1, Power board X1 cable	Enclosure	0,4										
),07 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	Cable set #1, AC/DC module Earth	Enclosure	0,07										
(),17 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	Chassis Earth	Enclosure	0,17										
	0,5 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	Arduino Shield Earth	Enclosure	0,5										
(),33 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	Cable set #2, Power board X1 cable	Enclosure	0,33										
(),15 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	Cable set #2, AC/DC module Earth	Enclosure	0,15										
(),15 LG\	/0.75/25-YL/GR	Insulated wire, stranded, green-yellow, 0.75 mm2	AUX PS module Earth	Enclosure	0,15										
						1,77	2528140	PP001239	0,481	1						
•),24 LG\	0.35/25-BR	Insulated wire, stranded, any color, max. 0.35 mm2	AUX temp sensor	Arduino Shield	0,24	2425402	MC6A-7/0.2T2-BN-	- 0,095	1						
	1 Ardı	uino USB cable	USB micro to 5-pin receptacle cable, 30 or 50 cm	Search e.g. AliExpress		1	-									
	1 FC1	0300-0	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.

	r toject source code at https://girtub.com/ee2-open														
				RS Compone	nts	TME				Price calculation for 1 set					
#	Qty	Part name	Code	Part Number	Unit price MOQ	Code / Part Number	Unit price MC	DQ THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €		
						LGY0.75/25-BK	0,340 2	5		TME	0,340 €	1	0,248		
	0,4	LGY0.75/25-YL/GR													
	0,07	LGY0.75/25-YL/GR													
	0,17	LGY0.75/25-YL/GR													
	0,5	LGY0.75/25-YL/GR													
	0,33	LGY0.75/25-YL/GR													
	0,15	LGY0.75/25-YL/GR													
	0,15	LGY0.75/25-YL/GR													
						LGY0.75/25-YL/GR	0,340 2	5		TME	0,340 €	2	0,602		
	0,24	LGY0.35/25-BR				LGY0.35/25-BR	0,210 2	5		Farnell	0,095€	1	0,095		
	1	Arduino USB cable				-				Farnell	0,000€	1	0,000		
	1	FC10300-0				FC10300-0	1,040 1			TME	1,040 €	1	1,040		
						ı		1		1			5,05 €		

Total 285,15€

40,00 PCBA (min. 50 pcs) Estimated PCBs (min. 20 pcs) 30,00 Estimated Enclosure (min. 20 pcs) Estimated 51,00 121,00 Estimated total (no shipping costs included): 406,15€