EEZ PSU H24005 BOM (r5B9, 2016-07-24)
Project source code at https://github.com/eez-open

GBP/EUR ratio: **1,19457**

#	Qty	Part name	Package	Reference designator	Board name	Qty	Code	Farnell Unit price	Total	Code	TME Unit price	Total	Combined	THT	SMD
1	6	Arduino Due header 1x8-pin, Ethernet header	THT	ADCL, ADCH, Comm, PWML, PWMH, X18	Arduino Shield	6	1022256	0,084	£0,50	ZL201-08G	0,065	0,39 €	0,389 €	6	
2	3	100n	1206	C1, C2, C3	Power board	6	2497072	0,035	£0,21	C1206C104K5RAC	0,013	0,08 €	0,080 €		6
3	19	100n	0603	C11, C26, C30, C37, C42, C54, C55, C56, C60, C61, C62, C65, C69, C70, C73, C75, C79, C82, C83	Power board	38									
	1	100n	0603	C91	AUX PS	1									
	27	100n	0603	C113, C114, C115, C116, C117, C118, C121, C122, C123, C124, C126, C128, C129, C136, C137, C138, C139, C140, C141, C142, C143, C147, C149, C150, C151, C153, C156	Arduino Shield	27									
						66	2496832	0,006	£0,38	CL10B104KO8NNNC	0,004	0,29 €	0,290 €		66
4	1	100u	SMD; Ø6.3 x 7.7mm	C97	AUX PS	1	1539501	0,305	£0,31	EEEFPV101XAP	0,340	0,34 €	0,340 €		1
5	8	10n	0805	C105, C108, C110, C112, C133, C146, C154, C155	Arduino Shield	8									
	6	10n	0805	C34, C45, C53, C58, C80, C84	Power board	12									
						20	1759246	0,011	£0,23	CL31B103KBCNNNC	0,012	0,24 €	0,241 €		20
6	2	10u	1210, 50V, **X7R**	C107, C125	Arduino Shield	2									
	3	10u	1210, 50V, **X7R**	C12, C20, C66	Power board	6									
						8	2362133	0,995	£7,96	CL32B106KBJNNNE	0,203	1,62 €	1,624 €		8
7	1	10u	SMD; Ø5 x 5.8mm	C120	Arduino Shield	1	1850112	0,206	£0,21	EEEFK1V100R	0,200	0,20 €	0,200 €		1
8	1	10u	1206, Tantalum	C144	Arduino Shield	1									
	1	10u	1206, Tantalum	C67	Power board	2									
						3	1457413	0,177	£0,53	T491A106K010AT	0,085	0,26 €	0,255 €		3
9	2	120p	0805	C21, C50	Power board	4	1414667	0,030	£0,12	CL21C121JBANNNP	0,007	0,03 €	0,027 €		4
10	1	180p	0805	C96	AUX PS	1	1759207	0,051	£0,05	CL10C181JB8NNNC	0,006	0,01 €	0,006 €		1
11	2	18p	0805	C131, C135	Arduino Shield	2	2320820	0,038	£0,08	CL21C180JBANNNC	0,010	0,02 €	0,019 €		2
12	6	1n	0805	C41, C47, C51, C63, C64	Power board	12									
	1	1n	0805	C94	AUX PS	1									
						13	2407340	0,035	£0,46	CL21B102KCANNNC	0,006	0,08 €	0,084 €		13
13	4	1u	1206, 100V	C10, C28, C31, C44	Power board	8	2320876	0,277	£2,22	GRM31CR72A105KA01L	0,128	1,02 €	1,022 €		8
14	7	1u	0805, 50V	C13, C57, C59, C68, C74, C76	Power board	14	2118131	0,169	£2,37	CL21B105KBFNNNG	0,014	0,20 €	0,200 €		14
15	1	22n	0805	C130	Arduino Shield	1									
	1	22n	0805	C29	Power board	2									
	2	22n	0805	C87, C90	AUX PS	2									
						5	1759252	0,021	£0,10	CL21B223KBANNNC	0,008	0,04 €	0,042 €		5
16	3	2n2	0805	C48, C49, C81	Power board	6	1759235	0,023	£0,14	CL21B222KBANNND	0,006	0,04 €	0,037 €		6
17	4	2u2	0805	C24, C36, C38, C39	Power board	8	2320829	0,153	£1,22	CL21B225KAFNNNG	0,027	0,22 €	0,220 €		8
18	2	330p	0805	C17, C33	Power board	4									
	1	330p	0805	C89	AUX PS	1									
						5	1759212	0,030	£0,15	CL21C331JBANNNC	0,014	0,07 €	0,069 €		5
19	5	3n3	0805	C40, C71, C72, C77, C78	Power board	10	2496782	0,004	£0,04	CL21B332KBANNNC	0,007	0,07 €	0,042 €		10
20	1	3n9	0805	C95	AUX PS	1	1759240	0,030	£0,03	CL21B392KBANNNC	0,009	0,01 €	0,009 €		1
21	3	470n	0805, 50V	C9, C25, C32	Power board	6									
	2	470n	0805, 50V	C104, C109	Arduino Shield	2									
						8	2470492	0,043	£0,34	CL21B474KBFNNNG	0,015	0,12 €	0,122 €		8
22	1	470p	0805	C23	Power board	2	2496859	0,005	£0,01	CL21B471KBANNNC	0,007	0,01 €	0,012 €		2

No.	Qty	Value	Package	References	Board	Qty	Code	Price1	Price £	MPN	Price2	Price €	Total €	Qty
23	2	47n	0805	C148, C152	Arduino Shield	2								
	1	47n	0805	C98	AUX PS	1								
						3	2496983	0,011	£0,03	CC0805KRX7R9473	0,008	0,02 €	0,025 €	3
24	1	47n/400V	THT	C86	AUX PS	1	2468839	0,630	£0,63	-			0,753 €	1
25	2	47p	0805	C46, C52	Power board	4	1414692	0,015	£0,06	CC0805JRNPO9470	0,007	0,03 €	0,030 €	4
26	1	47u	SMD, Ø6.3 x 5.8mm	C119	Arduino Shield	1								
	2	47u	SMD, Ø6.3 x 5.8mm	C27, C35	Power board	4								
						5	9695850	0,247	£1,24	EEEFK1V470P	0,153	0,76 €	0,764 €	5
27	1	4n7	0805	C22	Power board	2	2496786	0,004	£0,01	CL21B472KBANNNC	0,006	0,01 €	0,008 €	2
28	1	4u7	1206, Tantalum	C145	Arduino Shield	1								
	1	4u7	1206, Tantalum	C43	Power board	2								
						3	1457428	0,162	£0,49	T491A475K006AT	0,075	0,23 €	0,226 €	3
29	3	4u7	1210, 100V, **X7R**	C6, C7, C8	Power board	6	2211140	1,270	£7,62	-			9,103 €	6
30	3	4u7	1210, 25V	C88, C92, C93	AUX PS	3	1907365	0,330	£0,99	CL32A475KAULNNE	0,116	0,35 €	0,348 €	3
31	2	6n8	0603	C132, C134	Arduino Shield	2	1759100	0,009	£0,02	CL10B682JB8NNNC	0,004	0,01 €	0,008 €	2
32	1	6n8 (X1)	THT	C85	AUX PS	1	2478385	0,354	£0,35	MKP-Y2-6N8	0,158	0,16 €	0,158 €	1
33	1	EECS5R5H105	THT	C127	Arduino Shield	1	9697497	2,780	£2,78	EECS5R5H105	2,190	2,19 €	2,190 €	1
34	1	EEEFK1J101P	SMD; Ø10 x 10.2mm	C18	Power board	2	9696040	0,481	£0,96	EEEFK1J101P	0,370	0,74 €	0,740 €	2
35	1	EEEFK1J470P	SMD; Ø8x10.2mm	C16	Power board	2	9696032	0,603	£1,21	EEEFK1J470P	0,443	0,89 €	0,885 €	2
36	2	UPW1J150MED	SMD; Ø6.3x5.8mm	C106, C111	Arduino Shield	2	2326151	0,222	£0,44	UWT1H220MCL6GS	0,088	0,18 €	0,176 €	2
37	1	BAS316	SOD-323	D21	AUX PS	1								
	5	BAS316	SOD-323	D22, D23, D24, D26, D27	Arduino Shield	5								
	9	BAS316	SOD-323	D6, D11, D12, D13, D14, D15, D16, D17, D18	Power board	18								
						24	8734275	0,140	£3,36	BAS316	0,019	0,44 €	0,444 €	24
38	1	BAT54S	BAT54S	D28	Arduino Shield	1	1621835	0,086	£0,09	BAT54S.215	0,017	0,02 €	0,017 €	1
39	1	DFLS1100-7	SOD-323	D19	AUX PS	1								
	2	DFLS1100-7	SOD-323	D7, D10	Power board	4								
						5	1713889	0,657	£3,29	-			3,924 €	5
40	1	SKL16	SOD-323	D20	AUX PS	1								
	1	SKL16	SOD-323	D29	Arduino Shield	1								
	2	SKL16	SOD-323	D8, D9	Power board	4								
						6	8738025	0,146	£0,88	SKL16	0,019	0,11 €	0,111 €	6
41	1	SMBJ5.0A-TR	DO-214AA	D26	Arduino Shield	1	9886311	0,086	£0,09	SMBJ5.0A-TR	0,094	0,09 €	0,094 €	1
42	1	STPS15H100	TO-252	D5	Power board	2	2344052	0,549	£1,10	-			1,312 €	2
43	3	60R@100MHz	0603	FB1, FB2, FB3	Power board	6								
	1	60R@100MHz	0603	FB4	AUX PS	1								
	1	60R@100MHz	0603	FB7	Arduino Shield	1								
						8	1635704	0,171	£1,37	LCBA-600	0,027	0,22 €	0,215 €	8
44	1	LTC3864EMSE#PBF	MSOP-12	IC1	Power board	2	2293128	3,380	£6,76	-			8,075 €	2
45	1	REF5025AIDG4	SOIC-8	IC10	Power board	2	1439622	2,400	£4,80	-			5,734 €	2
46	1	DAC8552IDGKTG4	SOP-8	IC11	Power board	2	1329584	5,950	£11,90	-			14,215 €	2
47	1	ADG465SOT-23	SOT-23	IC12	Power board	2	2376952	1,330	£2,66	-			3,178 €	2
48	1	TS5A9411DCKT	SC-70	IC13	Power board	2	1755582	0,765	£1,53	-			1,828 €	2
49	1	ADS1120IPWR	TSSOP-16	IC14	Power board	2	2402249	6,430	£12,86	-			15,362 €	2
50	1	LP339D	SOIC-14	IC15	Power board	2	9589686	0,357	£0,71	LP339D	0,278	0,56 €	0,556 €	2
51	1	LM25575MH/NOPB	HTSSOP-16	IC16	AUX PS	1	1564783	3,220	£3,22	-			3,847 €	1
52	1	MC79L05	SOIC-8	IC2	Power board	2	2323583	0,249	£0,50	MC79L05ACD	0,155	0,31 €	0,310 €	2
53	1	TLC5925IDBQR	SSOP-24	IC20	Arduino Shield	1	1694438	1,010	£1,01	-			1,207 €	1
54	2	Si8641EC-B-IS1	SOIC-16	IC21, IC24	Arduino Shield	2	2423294	2,870	£5,74	-			6,857 €	2
55	2	SI8651EC-B-IS1	SOIC-16	IC22, IC23	Arduino Shield	2	2423323	2,220	£4,44	-			5,304 €	2
56	1	LD1117ADT33TR	TO-252	IC24	Arduino Shield	1	1087169	0,259	£0,26	LD1117ADT33	0,315	0,32 €	0,309 €	1

No	Qty	Value	Package	Designator	Board	Qty	Order	Price	Price €	Mfg Part			Total €	Qty
57	1	PCA21125T/Q900/1,1	TSSOP-14	IC26	Arduino Shield	1	2400445	1,380	£1,38	-			1,649 €	1
58	1	AT25256B	SOIC-8	IC27	Arduino Shield	1	1841577	0,905	£0,91	25AA256-I/SN	1,290	1,29 €	1,081 €	1
59	1	W5500	LQFP-48	IC28	Arduino Shield	1	-			W5500	2,500	2,50 €	2,500 €	1
60	1	MC78L05	SOIC-8	IC3	Power board	2	9593845	0,357	£0,71	MC78L05ABDG	0,165	0,33 €	0,330 €	2
61	1	BC857BS	SOT-363	IC29	Arduino Shield	1	1653608	0,108	£0,11	BC857BS	0,027	0,03 €	0,027 €	1
62	1	TLC555	SOIC-8	IC30	Arduino Shield	1	9589880	0,240	£0,24	TLC555CDR	0,365	0,37 €	0,287 €	1
63	1	SN74LVC2G08DCTR	SSOP-8	IC31	Arduino Shield	1	1470871	0,314	£0,31	-			0,375 €	1
64	1	TPS3705-33D	SOIC-8	IC32	Arduino Shield	1	2296066	0,812	£0,81	-			0,970 €	1
65	1	SN74LV1T34DBVR	SOT-23	IC33	Arduino Shield	1	2499914	0,334	£0,33	-			0,399 €	1
66	1	SN74LVC2G02DCTR	SSOP-8	IC34	Arduino Shield	1	1236358	0,360	£0,36	SN74LVC2G02DCTR	0,024	0,02 €	0,024 €	1
67	1	LM5574	TSSOP-16	IC4	Power board	2	2323534	2,880	£5,76	LM5574MT	4,170	8,34 €	6,881 €	2
68	1	LP2951SO8	SOIC-8	IC5	Power board	2	1755066	0,579	£1,16	LP2951CM/NOPB	0,508	1,02 €	1,016 €	2
69	2	TL072D	SOIC-8	IC6, IC7	Power board	4	1467663	0,113	£0,45	TL072CD	0,164	0,66 €	0,540 €	4
70	1	OP27GSZ	SOIC-8	IC8	Power board	2	9426124	2,020	£4,04	OP27GSZ	1,550	3,10 €	3,100 €	2
71	1	MCP23S08-E/SO	SOIC-18	IC9	Power board	2	1332092	0,866	£1,73	MCP23S08-E/SO	1,070	2,14 €	2,069 €	2
72	2	RT424005	THT	K_PAR, K_SER	Arduino Shield	2	9950168	2,430	£4,86	RT424005	1,260	2,52 €	2,520 €	2
73	2	G6K-2F-5DC	SMD, relay	K_S1, K_S2	Arduino Shield	2	4446185	2,810	£5,62	G6K-2F-5DC	2,490	4,98 €	4,980 €	2
74	1	SK 145/37,5	THT	KK1	AUX PS	1	4621414	1,600	£1,60	-			1,911 €	1
75	1	RN114-4/02	THT, **solder on bottom layer!**	L1	Power board	2	1191484	2,180	£4,36	CAF-3.1-1.2	1,820	3,64 €	3,640 €	2
76	1	470u	SMD; 7.3mm x 7.3mm	L10	AUX PS	1	2455059	0,706	£0,71	DE0704-470	0,218	0,22 €	0,218 €	1
77	1	7443551331	SMD; 13.2mm x 12.8mm	L2	Power board	2	2211631	2,560	£5,12	-			6,116 €	2
78	2	IHLP2020CZER3R3M11	SMD; 5.49mm x 5.18mm	L3, L4	Power board	4	1741325	1,100	£4,40	-			5,256 €	4
79	3	2u2	1210	L5, L6, L7	Power board	6								
	1	2u2	1210	L8	AUX PS	1								
						7	2470305	0,205	£1,44	DLJ3015-2.2	0,275	1,92 €	1,714 €	7
80	1	100uH	SMD, 12mm x 12mm	L9	AUX PS	1	2113014	0,735	£0,74	DE1205-100	0,336	0,34 €	0,336 €	1
81	1	TFT_320QVT	THT; 2x20-pin socket	LCD1	Arduino Shield	1	7992033	2,040	£2,04	ZL262-40DG	0,322	0,32 €	0,322 €	1
82	2	HSMG-C170	0805	LED_O1, LED_O2	Arduino Shield	2	5790852	0,147	£0,29	HSMG-C170	0,095	0,19 €	0,190 €	2
83	5	HSMH-C170	0805	LED_CC1, LED_CC2, LED_PROG1, LED_PROG2, LED_SP	Arduino Shield	5	5790840	0,144	£0,72	HSMH-C170	0,056	0,28 €	0,280 €	5
84	1	HSMR-C170	0805	LED_PWR	Arduino Shield	1	5790864	0,172	£0,17	HSMD-C170	0,059	0,06 €	0,059 €	1
85	4	HSMY-C170	0805	LED_CV1, LED_CV2, LED_S1, LED_S2	Arduino Shield	4								
	1	HSMY-C170	0805	LED1	Power board	2								
						6	5790876	0,144	£0,86	HSMY-C170	0,060	0,36 €	0,360 €	6
86	1	10K/Beta:3570K	0805	NTC1	Power board	2	1612623	0,264	£0,53	NTCS0805E3103JMT	0,190	0,38 €	0,380 €	2
87	1	MOC3052	SMD; SDIP-6	OK1	AUX PS	1	2453236	0,655	£0,66	MOC3052SR2VM	0,380	0,38 €	0,380 €	1
88	1	MOC3062	SMD; SDIP-6	OK2	AUX PS	1	2322554	0,537	£0,54	MOC3062XSM	0,420	0,42 €	0,420 €	1
89	1	HCPL-181	SOIC-4	OK3	Arduino Shield	1	1244525	0,255	£0,26	HCPL-181-000E	0,250	0,25 €	0,250 €	1
90	1	SUD19P06-60	TO-252	Q1	Power board	2	2101465	1,470	£2,94	-			3,512 €	2
91	5	MMBT5551	SOT-23	Q12, Q13, Q16, Q18, Q19	Power board	10	1459109	0,127	£1,27	MMBT5551	0,020	0,20 €	0,204 €	10
92	1	BSS84P	SOT-23	Q14	Power board	2	1056526	0,085	£0,17	BSS84P	0,048	0,10 €	0,096 €	2
93	4	MMBT5401	SOT-23	Q2, Q10, Q11, Q17	Power board	8	1459108	0,121	£0,97	MMBT5401	0,021	0,16 €	0,164 €	8
94	2	BTA26-600	THT	Q20, Q21	AUX PS	2	1057286	2,070	£4,14	BTA26-600BRG	2,540	5,08 €	4,946 €	2
95	1	IRLL014N	SOT-232	Q22	AUX PS	1	8651183	0,392	£0,39	IRLL014NPBF	0,214	0,21 €	0,214 €	1
96	5	IRLML2246TRPBF	SOT-23	Q23, Q24, Q25, Q26, Q28	Arduino Shield	5	1888166	0,212	£1,06	IRLML2246TRPBF	0,100	0,50 €	0,500 €	5
97	3	2N7002	SOT-23	Q27, Q29, Q30	Arduino Shield	3								
	2	2N7002	SOT-23	Q3, Q15	Power board	4								
						7	1713823	0,093	£0,65	2N7002LT1G	0,019	0,13 €	0,133 €	7
98	1	IRFP250N	THT, **solder on bottom layer!**	Q4	Power board	2	8649260	1,510	£3,02	IRFP250NPBF	1,060	2,12 €	2,120 €	2
99	1	BC857C	SOT-23	Q5	Power board	2	8734771	0,018	£0,04	BC857C-DIO	0,020	0,04 €	0,040 €	2
100	1	BC846C	SOT-23	Q6	Power board	2	2453325	0,040	£0,08	BC846C-DIO	0,002	0,00 €	0,004 €	2
101	2	BCP56-16.115	SOT-223	Q7, Q9	Power board	4	1081258	0,187	£0,75	BCP56-16.115	0,106	0,42 €	0,424 €	4
102	1	IRFR5410	TO-252	Q8	Power board	2	2468040	0,846	£1,69	IRFR5410PBF	0,550	1,10 €	1,100 €	2
103	3	0R	0805	R3, R21, R57	Power board	6								
	2	0R	0805	JP1, JP2	Power board	4								
	5	0R	0805	JP4, JP5, JP6, JP7, JP8	Arduino Shield	5								

#	Qty	Value	Package	Designators	Board	Qty	Code		£	Part number			€	Qty
						15	9233750	0,007	£0,11	SMD0805-0R	0,058	0,87 €	0,127 €	15
104	4	100K	0805	R11, R14, R77, R79	Power board	8								
	2	100K	0805	R143, R154	Arduino Shield	2								
						10	2352619	0,063	£0,63	SMD0805-100K-1%	0,008	0,08 €	0,081 €	10
105	2	100K	0805, 0.1%	R49, R59	Power board	4	1577686	0,197	£0,79	RN73C2A100KBTDF	0,513	2,05 €	0,941 €	4
106	1	100R	0805	R127	AUX PS	1								
	1	100R	0805	R164	Arduino Shield	1								
	3	100R	0805	R5, R6, R43	Power board	6								
						8	1759246	0,011	£0,09	RC0805FR-07100R	0,007	0,05 €	0,053 €	8
107	3	10K	0805	R124, R125, R131	AUX PS	3								
	5	10K	0805	R147, R153, R157, R170, R172	Arduino Shield	5								
	16	10K	0805	R9, R10, R22, R23, R29, R45, R52, R54, R61, R75, R76, R78, R86, R98, R99, R106	Power board	32								
						40	9237755	0,009	£0,36	RC0805FR-0710K	0,007	0,27 €	0,266 €	40
108	1	10R	1206	R120	AUX PS	1								
	1	10R	1206	R151	Arduino Shield	1								
	3	10R	1206	R8, R18, R85	Power board	6								
						8	9236643	0,013	£0,11	CRCW120610R0FKTABC	0,014	0,11 €	0,110 €	8
109	1	12K4	0805	R152	Arduino Shield	1	2141850	0,002	£0,00	-			0,002 €	1
110	1	22R/7W	THT	R107	AUX PS	1	1687978	0,272	£0,27	-			0,325 € 1	
111	2	16K	0805	R118, R123	AUX PS	2								
	2	16K	0805	R25, R36	Power board	4								
						6	9332677	0,016	£0,10	SMD0805-16K-1%	0,008	0,05 €	0,049 €	6
112	4	180R	0805	R142, R155, R156, R158	Arduino Shield	4	2447583	0,005	£0,02	SMD0805-180R-1%	0,008	0,03 €	0,024 €	4
113	2	180R	0805, 0.1%	R63, R73	Power board	4	1577596	0,143	£0,57	-			0,683 €	4
114	1	1K	0805	R129	AUX PS	1								
	2	1K	0805	R167, R168	Arduino Shield	2								
	6	1K	0805	R4, R33, R41, R74, R82, R95	Power board	12								
						15	1099800	0,009	£0,14	RC0805FR-071K	0,007	0,10 €	0,099 €	15
115	1	1K8	0805	R126	AUX PS	1								
	2	1K8	0805	R28, R56	Power board	4								
	2	1K8	0805	R138, R159	Arduino Shield	2								
						7	2447595	0,005	£0,03	SMD0805-1K8-1%	0,008	0,06 €	0,041 €	7
116	2	1R	0805	R136, R140	Arduino Shield	2	2141629	0,017	£0,03	RC0805FR-071R	0,009	0,02 €	0,019 €	2
117	2	20K	0805, 0.1%	R50, R60	Power board	4	1575937	0,393	£1,57	TC0525B2002T1E	0,108	0,43 €	0,431 €	4
118	9	220R	0805	R38, R39, R42, R48, R58, R80, R81, R83, R84	Power board	18								
	2	220R	0805	R114, R117	AUX PS	2								
						20	1099795	0,012	£0,25	RC0805FR-07220R	0,007	0,14 €	0,143 €	20
119	4	2K2	0805	R110, R111, R119, R12	AUX PS	4								
	11	2K2	0805	R17, R32, R34, R35, R37, R46, R62, R65, R68, R94, R96	Power board	22								
						26	9237534	0,009	£0,23	SMD0805-2K2-1%	0,008	0,21 €	0,210 €	26
120	2	2K37	0805, 0.1%	R64, R72	Power board	4	1575834	0,343	£1,37	-			1,639 €	4
121	1	2R2/2W	2512	R31	Power board	2	1376975	0,353	£0,71	WF25P-2R2-5%	0,042	0,08 €	0,084 €	2
122	1	330K	0805	R12	Power board	2	9333070	0,002	£0,00	RC0805FR-07330K	0,007	0,01 €	0,004 €	2
123	2	330R	0805	R87, R105	Power board	4	9333037	0,002	£0,01	RC0805FR-07330R	0,007	0,03 €	0,008 €	4
124	4	330R/2W	2512	R108, R109, R112, R115	AUX PS	4	1265196	0,106	£0,42	WF25P-330R-5%	0,042	0,17 €	0,168 €	4
125	3	470R	0805	R20, R40, R53	Power board	6	1099798	0,012	£0,07	RC0805FR-07470R	0,007	0,04 €	0,044 €	6

#	Qty	Value	Package	References	Board	Qty	Order		£	Mfr Part				
126	1	47K	0805	R128	AUX PS	1								
	2	47K	0805	R162, R163	Arduino Shield	2								
	7	47K	0805	R7, R16, R19, R89, R90, R91, R103	Power board	14								
						17	2447664	0,005	£0,08	RC0805FR-0747K	0,007	0,12 €	0,100 €	17
127	4	49R9	0805	R146, R148, R149, R150	Arduino Shield	4								
	2	49R9	0805	R113, R116,	AUX PS	2								
						6	2141727	0,016	£0,10	RC0805FR-0749R9	0,007	0,04 €	0,043 €	6
128	9	4K7	0805	R134, R135, R137, R139, R141, R144, R145, R169, R171	Arduino Shield	9								
	2	4K7	0805	R15, R97	Power board	4								
						13	9333266	0,016	£0,21	RC0805FR-074K7	0,006	0,08 €	0,084 €	13
129	2	51K	0805	R24, R51	Power board	4	9334653	0,011	£0,04	RC0805FR-0751K	0,006	0,02 €	0,024 €	4
130	4	51R	0805, 0.1%	R66, R67, R70, R71	Power board	8	1670210	0,207	£1,66	-			1,978 €	8
131	3	5K1	0805	R27, R88, R101	Power board	6								
	2	5K1	0805	R165, R166	Arduino Shield	2								
						8	9333320	0,016	£0,13	RC0805FR-075K1	0,007	0,05 €	0,052 €	8
132	2	5K6	0805	R121, R130	AUX PS	2								
	4	5K6	0805	R26, R92, R102, R104	Power board	8								
						10	2447693	0,005	£0,05	SMD0805-5K6-1%	0,008	0,08 €	0,059 €	10
133	5	750R	0805	R47, R93, R100	Power board	10								
	2	750R	0805	R160, R161	Arduino Shield	2								
						12	9333525	0,016	£0,19	CRCW0805750RFKTABC	0,012	0,14 €		12
134	2	7K5	0805, 0.1%	R44, R55	Power board	4	1670239	0,206	£0,82	RN73C2A7K5BTDF	0,475	1,90 €	0,984 €	4
135	1	R010/2W	2512, 2W	R2	Power board	2	1435947	0,386	£0,77	WW25RR010FTL	0,189	0,38 €	0,378 €	2
136	1	R020/2W	2512, 2W	R69	Power board	2	2079436	0,156	£0,31	WW25NR020FTL	0,189	0,38 €	0,373 €	2
137	1	R080/3W	2512, 3W	R30	Power board	2	1435951	0,524	£1,05	-			1,252 €	2
138	2	4x10K	1206; resistor array	RN1, RN2	Arduino Shield	2	1770137	0,088	£0,18	DR1206-10K-4/8	0,007	0,01 €	0,013 €	2
139	1	LD-BZEN-0903	THT	SP1	Arduino Shield	1	-			LD-BZEN-0903	0,508	0,51 €	0,508 €	1
140	1	A101SYCQ04	THT	SW1	Arduino Shield	1	2292959	1,960	£1,96	-			2,341 €	1
141	1	1301.9316	SMD; tactile switch	SW2	Arduino Shield	1	1217765	0,510	£0,51	1301.9316	0,220	0,22 €	0,220 €	1
142	1	SRF0703-821M	SMD; 7.6mm x 7.6mm	TR1	Power board	2	1852832	0,608	£1,22	-			1,453 €	2
143	1	VTX-214-005-112	THT	TR2	AUX PS	1	2401044	6,490	£6,49	-			7,753 €	1
144	1	39303035	THT	X1	Power board	2	9963545	0,568	£1,14	MX-5569-03A4	0,476	0,95 €	0,952 €	2
145	1	2411-01	THT, **solder on bottom layer!**	X11	AUX PS	1	1177884	0,841	£0,84	2411-01	0,660	0,66 €	0,660 €	1
146	1	MC000006	THT, **solder on bottom layer!**	X12	Arduino Shield	1	2007972	1,530	£1,53	-			1,828 €	1
147	2	TSW-113-07-F-D	THT	X13, X15	Arduino Shield	2	2025182	1,640	£3,28	-			3,918 €	2
148	1	MC000005	THT, **solder on bottom layer!**	X14	Arduino Shield	1	2007971	1,190	£1,19	-			1,422 €	1
149	1	22-23-2021	THT	X17	Arduino Shield	1	1462926	0,040	£0,04	MX-22-23-2021	0,070	0,07 €	0,048 €	1
150	1	22-23-2041	THT	X19	Arduino Shield	1	1462920	0,130	£0,13	MX-22-23-2041	0,106	0,11 €	0,106 €	1
151	1	SSW-113-02-T-D-RA	THT	X3	Power board	2	1805583	4,170	£8,34	ZL263-26DG	0,399	0,80 €	0,799 €	2
152	1	39303055	THT	X4	AUX PS	1	9963561	0,374	£0,37	-			0,447 €	1
153	1	9185067324	THT	X5	AUX PS	1								
	1	9185067324	THT	X16	Arduino Shield	1								
						2	1096984	0,745	£1,49	T821-1-10-S1	0,290	0,58 €		2
154	1	22-23-2031	THT	X6	AUX PS	1	1462950	0,079	£0,08	MX-22-23-2031	0,080	0,08 €	0,080 €	1
155	1	LMJ2138814S0L1T1C	THT, **solder on bottom layer!**	X7	AUX PS	1	-			RJ45-TRAFO-LP	2,820	2,82 €	2,820 €	1
156	1	826629-8	THT	X8	AUX PS	1								
	1	826629-8	THT	X18	Arduino Shield	1								
						2	1022256	0,084	£0,17	ZL201-08G	0,065	0,13 €		2
157	1	826629-5	THT	X9	AUX PS	1	1593416	0,281	£0,28	ZL201-05G	0,032	0,03 €	0,032 €	1
158	1	32,768kHz	THT	Y1	Arduino Shield	1	1611828	0,131	£0,13	32.768K-TC38	0,144	0,14 €	0,144 €	1

#	Qty	Value	Package	Reference	Board	Q	Order	Unit	£	Mfr part	a	b	Price €	c
159	1	25MHz	SMD, 11.5mm x 4.7mm	Y2	Arduino Shield	1	2467741	0,111	£0,11	25.00M-SMDHC49S	0,373	0,37 €	0,133 €	1
160	2	SMAJ18A	DO-214AC	ZD10, ZD11	Arduino Shield	2	1749305	0,040	£0,08	P4SMAJ18A-DIO	0,105	0,21 €	0,095 €	2
161	1	BZX384-C4V3	SOD-323	ZD12	Arduino Shield	1	8735697	0,133	£0,13	BZT52C4V3-DIO	0,019	0,02 €	0,019 €	1
162	1	BZX384-C15.115	SOD-323	ZD4	Power board	2	8735506	0,133	£0,27	BZX384-C15.115	0,019	0,04 €	0,038 €	2
163	1	PDZ6.2B	SOD-323	ZD5	Power board	2	1757863	0,194	£0,39	PDZ6.2B	0,019	0,04 €	0,037 €	2
164	2	P4SMAJ48A	DO-214AC	ZD8, ZD9	Arduino Shield	2	1749310	0,157	£0,31	P4SMAJ48A-DIO	0,102	0,20 €	0,204 €	2
									£215,35			75,12 €	194,62 €	

AUX PS 230 V protection

#	Qty	Value	Package	Reference	Board	Q	Order	Unit	£	Mfr part	a	b	Price €	c
165	1	CG2-470L	THT	SAR1	AUX PS	1	1846854	1,390	£1,39	CG2-470L	1,450	1,45 €	1,450 €	1
166	2	S20K250	THT	VAR1, VAR2	AUX PS	2	1004357	0,563	£1,13	SIOV-S20K250	0,517	1,03 €	1,034 €	2
167	2	1.5KE400CA	THT	ZD6, ZD7	AUX PS	2	2341650	0,346	£0,69	1.5KE400CA	0,256	0,51 €	0,512 €	2
									£3,21			3,00 €	3,00 €	48 699

Not installed

	Qty	Value	Package	Reference	Board	Q								n
	5	100n	0603	C99, C100, C101, C102, C103	AUX PS	5	-			-				5
	1	1u	1206	C14	Power board	2	-			-				2
	2	100n	0805	C15, C19	Power board	4	-			-				4
	2	2m2	THT, Ø18mm, **solder on bottom layer!**	C4, C5	Power board	4	-			-				4
	4	STPS15H100	TO-252	D1, D2, D3, D4	Power board	8	-			-				8
	2	60R@100MHz	0603	FB5, FB6	AUX PS	2	-			-				
	2	S1751-46R	0805	GND, SW	Power board	4	-			-				4
	1	TPD4E002DRLR		IC17	AUX PS	1	-			-				1
	1	TPD2E001DZDR		IC18	AUX PS	1	-			-				1
	1	ADUM3160BRWZ		IC19	AUX PS	1	-			-				1
	1	826926-2	THT	JP3	Arduino Shield	1	-			-				1
	1	0R	0805	R13	Power board	2	-			-				2
	1	12K	1208	R1	Power board	2	-			-				2
	2	22R	0805	R132, R133	AUX PS	2	-			-				2
	1	NRF24L01 module	THT	WIFI	Arduino Shield	1	-			-				1
	1	826629-5	THT	X10	AUX PS	1	-			-				1
	1	282836-2	THT	X2	Power board	2	-			-				2
	1	SSW-105-02-S-D	THT	X20	Arduino Shield	1	-			-				1
	2	n.c.		ZD1, ZD2	Power board	4	-			-				4
	1	See Note 3.2		ZD3	Power board	2	-			-				2

Power module AC input option

	Qty	Value	Package	Reference	Board	Q	Order	Unit	£	Mfr part	a	b	Price €	
	2	2m2	THT, **solder on bottom layer!**	C4, C5	Power board	4	1822562	1,651	£6,60	UVR1H222MHD	1,100	4,40 €	0,000 €	
		Option #1: UVZ1H222MHD	THT, **solder on bottom layer!**	C4, C5	Power board	0	-			UVZ1H222MHD	0,973	0,97 €		
		Option #2: UVZ1J222MHD	THT, **solder on bottom layer!**	C4, C5	Power board	0	-			UVZ1J222MHD	1,593	1,59 €		
	4	STPS15H100	TO-252	D1, D2, D3, D4	Power board	8	2344052	0,549	£4,39	-			0,000 €	
	1	12K	1206	R1	Power board	2	1100220	0,013	£0,03	RC1206JR-0712K	0,006	0,01 €	0,000 €	
	1	282836-2	THT	X2	Power board	2	3089034	0,264	£0,53	282836-2	0,270	0,54 €	0,000 €	
	1	INDEL TST450/014	-	Transformer: toroidal; 450VA; 230VAC; 2x40V; 2x5.62A; 4kg	Enclosure	1	-			TST450/014	35,900	35,90 €	35,900 €	

Other

	Qty	Value	Package	Reference	Board	Q	Order	Unit	£	Mfr part	a	b	Price €	
	2	BS-244DSM-R	Binding post 4mm, red	J1, J4	Arduino Shield	2	1815818	2,120	£4,24	BS-244DSM-R	1,120	2,24 €	2,240 €	-
	1	BS-244DSM-G	Binding post 4mm, green	J2	Arduino Shield	1	1815820	2,170	£2,17	BS-244DSM-G	1,120	1,12 €	1,120 €	-
	2	BS-244DSM-B	Binding post 4mm, black	J3, J5	Arduino Shield	2	1815819	2,110	£4,22	BS-244DSM-B	1,140	2,28 €	2,280 €	-
	1	39-01-4030	Receptacle for X1		Power board	2	9963480	0,172	£0,34	MX-5557-03R2	0,132	0,26 €	0,264 €	-
	1	39-01-4050	Receptacle for X4		AUX PS	1	9963502	0,087	£0,09	MX-5557-05R2	0,240	0,24 €	0,104 €	-
	1	22-01-2035	Receptacle for X6		AUX PS	1	143127	0,145	£0,15	MX-6471-031	0,050	0,05 €	0,050 €	-
	3	39-00-0078	Pins for X1		Power board	6	9732675	0,110	£0,66	MX-5556-T3L	0,074	0,45 €	0,445 €	-
	5	39-00-0078	Pins for X4		AUX PS	5	9732675	0,110	£0,55	MX-5556-T3L	0,074	0,37 €	0,371 €	-
						11	9732675	0,110	£1,21	MX-5556-T3L	0,074	0,82 €	0,816 €	

Project source code at https://github.com/eez-open

Qty	Part	Description	Group	Qty	Order no.	Value	£ Price	Mfr / Supplier	Number	EUR	EUR	
3	08-50-0114	Pins for X6	AUX PS	3	2063734	0,023	£0,07	MX-0850-0114	0,047	0,14 €	0,082 €	-
1	MEAN WELL LRS-150-48	Power module 48VDC; 3.3A (adjustable to 54VDC)	Power board	2	-			LRS-150-48	18,010	36,02 €	36,020 €	-
1	TFF-M3X40/DR124	40 mm metal spacer, M3 (a pair is required for dual channel)	Power board	2	-			TFF-M3X40/DR124	0,156	0,31 €	0,312 €	-
0	Heatsink 70 x 120 mm	(Heatsink included with Varisom enclosure)	Power board	0	-			RAD-A4463/120	1,340	0,00 €	0,000 €	-
4	Screwed spacer sleeve; M3; 6 mm	Dremec 213x6	Power board	8	-			TFM-M3X6/DR213	0,089	0,71 €	0,713 €	-
1	12V fan 60x60mm		Enclosure	1	-			MB60251V1-G99	4,110	4,11 €	4,110 €	-
4	Screwed spacer sleeve; hexagonal	14 mm, M3	AUX PS	4	1466812	0,326	£1,30	B3X14/BN3320	0,309	1,24 €	1,238 €	-
1	Schurter 4304.6090	C14 IEC inlet, switch, 2 fuse drawer is included	Enclosure	1	2080294	8,650	£8,65	4304.6090	5,190	5,19 €	5,190 €	-
1	Arduino Due		Arduino Shield	1	-			Itead/Eckstein	19,480	19,48 €	19,480 €	-
1	3.2" TFT LCD		Arduino Shield	1	-			Itead/Eckstein	12,140	12,14 €	12,140 €	-
2	NSR-08	Plug; female; PIN:8 w/o terminals for Ethernet cable	Arduino Shield	2	-			NSR-08	0,088	0,18 €	0,175 €	
1	NSR-05	Plug; female; PIN:5 w/o terminals for USB cable	Arduino Shield	1	-			NSR-05	0,027	0,03 €	0,027 €	
21	NDR-T	Contact; female; 28÷22AWG; NSR/NDR; tinned	Arduino Shield	21	-			NDR-T	0,027	0,57 €	0,566 €	
9	Screwed spacer sleeve; M5; 8mm; brass	Extend binding post for PCB mounting	Arduino Shield	9	-			TFM-M5X8/DR218	0,187	1,68 €	1,681 €	
4	Spacer sleeve; 5mm; cylindrical; brass	5 mm between TFT display and front panel	Arduino Shield	4	1733405	0,065	£0,26	DR316/3.2X5	0,057	0,23 €	0,228 €	
4	Screwed spacer sleeve; hexagonal; polyamide; M3	11 mm between TFT display and PCB	Arduino Shield	4	2494576	0,238	£0,95	-	0,128		1,137 €	
4	Plastic washer; round; M3		Arduino Shield	4	-			B3/BN1074	0,008	0,03 €	0,032 €	
11	Light pipe for LED	Round; Ø3mm; Front: convex; straight	Arduino Shield	11	2293496	0,362	£3,98	PLP2-625	0,490	5,39 €	4,757 €	
1	Custom enclosure		Enclosure	1	-			Varisom (Qty. Of 10)	43,000	43,00 €	43,000 €	-
1	PCB+PCBA		Enclosure	1	-			-				-
							£28,84			**138,27 €**	**138,58 €**	

All prices are net prices (without VAT)

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