EEZ PSU consolidated r5B8 BOM (2016-06-26)
Project source code at https://github.com/eez-open

					GBP/EUR ratio:							1,26189

					Farnell				TME			
Qty	Part name	Package	Reference designator	Board name	Qty	Code	Unit price	Total	Code	Unit price	Total	Combined
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	0,074	0,44 €	0,445 €
1	DF01S	SMD; SDIP-4	B1	AUX PS	1	1470959	0,572	£0,57	DF01S	0,159	0,16 €	0,159 €
3	100n	1206	C1, C2, C3	Power board	6	2497072	0,035	£0,21	C1206C104K5RAC	0,013	0,08 €	0,080 €
1	1u	1206, 100V	C10	Power board	2	2320876	0,270	£0,54	GRM31CR72A105KA01L	0,123	0,25 €	0,246 €
5	100n	Not installed (optional)	C100, C101, C102, C103, C104	AUX PS	5	-			-			
2	470n/100V	1812	C105, C110	Arduino Shield	2	1828961	0,676	£1,35	CL43B474KCHNNNE	0,133	0,27 €	0,265 €
4	10n	1206	C106, C109, C111, C113	Arduino Shield	4	1759350	0,034	£0,14	CL31B103KBCNNNC	0,012	0,05 €	0,047 €
2	UPW1J150MED	SMD; Ø6.3x5.8mm	C107, C112	Arduino Shield	2	2326151	0,222	£0,44	UWT1H220MCL6GS	0,088	0,18 €	0,176 €
2	10u	1206	C108, C126	Arduino Shield	2	1759445	0,057	£0,11	CSMD10U1206X	0,060	0,12 €	0,120 €
7	100n	0805	C11, C15, C19, C26, C29, C36, C41	Power board	14	1759167	0,007	£0,09	CL21B104KBCNNNC	0,006	0,09 €	0,085 €
27	100n	0603	C114, C115, C116, C117, C118, C119, C122, C123, C124, C125, C127, C129, C130, C137, C138, C139, C140, C141, C142, C143, C144, C148, C150, C151, C152, C154, C157	Arduino Shield	27	1759016	0,006	£0,17	CL10B104KO8NNNC	0,006	0,16 €	0,161 €
2	10u	1210	C12, C20	Power board	4	1828859	0,494	£1,98	GRM32DF51H106ZA01L	0,180	0,72 €	0,720 €
1	47u	SMD; Ø5x5.8mm	C120	Power board	2	9695664	0,191	£0,38	EEEFK1C470UR	0,190	0,38 €	0,380 €
1	10u	SMD; Ø5 x 5.8mm	C121	Arduino Shield	1	1850112	0,206	£0,21	EEEFK1V100R	0,200	0,20 €	0,200 €
1	EECS5R5H105	THT	C128	Arduino Shield	1	9697497	2,780	£2,78	EECS5R5H105	2,190	2,19 €	2,190 €
2	1u	1206, 50V	C13, C14	Power board	4	2496997	0,031	£0,12	CC1206ZRY5V9105	0,011	0,04 €	0,043 €
1	22n	0805	C130	Arduino Shield	1	1759252	0,012	£0,01	CL21B223KBANNNC	0,009	0,01 €	0,009 €
1	22n	0805	C131	Arduino Shield	1	1759252	0,012	£0,01	CL21B223KBANNNC	0,009	0,01 €	0,009 €
2	18p	0805	C132, C136	Arduino Shield	2	2320820	0,019	£0,04	CL21C180JBANNNC	0,010	0,02 €	0,021 €
2	6n8	0603	C133, C135	Arduino Shield	2	1759100	0,010	£0,02	CL10B682JB8NNNC	0,004	0,01 €	0,008 €
4	10n	0805	C134, C147, C155, C156	Arduino Shield	4	1759246	0,011	£0,05	CL31B103KBCNNNC	0,012	0,05 €	0,046 €
1	10u	1206, Tantalum	C145	Arduino Shield	1	1457413	0,181	£0,18	T491A106K010AT	0,084	0,08 €	0,084 €
1	4u7	1206, Tantalum	C146	Arduino Shield	1	1457428	0,159	£0,16	T491A475K006AT	0,073	0,07 €	0,073 €
2	47n	0805	C149, C153	Arduino Shield	2	2496983	0,011	£0,02	CC0805KRX7R9473	0,008	0,02 €	0,016 €
1	EEEFK1J470P	SMD; Ø8x10.2mm	C16	Power board	2	9696032	0,489	£0,98	EEEFK1J470P	0,458	0,92 €	0,917 €
2	330p	0805	C17, C32	Power board	4	1759212	0,030	£0,12	CL21C331JBANNNC	0,014	0,05 €	0,054 €
1	EEEFK1J101P	SMD; Ø10 x 10.2mm	C18	Power board	2	9696040	0,481	£0,96	EEEFK1J101P	0,380	0,76 €	0,760 €
2	120p	0805	C21, C49	Power board	4	1414667	0,029	£0,11	CL21C121JBANNNP	0,008	0,03 €	0,030 €
1	4n7	0805	C22	Power board	2	2496786	0,004	£0,01	CL21B472KBANNNC	0,006	0,01 €	0,009 €
1	470p	0805	C23	Power board	2	2496859	0,005	£0,01	CL21B471KBANNNC	0,007	0,01 €	0,013 €
4	2u2	0805	C24, C35, C37, C38	Power board	8	2320829	0,153	£1,22	CL21B225KAFNNNG	0,027	0,22 €	0,220 €
2	330n	0805	C25, C31	Power board	4	1759174	0,051	£0,20	CL21B334KOCNNNC	0,017	0,07 €	0,067 €
2	47u	SMD, Ø6.3 x 5.8mm	C27, C34	Power board	4	9695850	0,218	£0,87	EEEFK1V470P	0,162	0,65 €	0,649 €
1	22n	0805	C28	Power board	2	1759252	0,012	£0,02	CL21B223KBANNNC	0,009	0,02 €	0,017 €
1	2u2/100V	1210, 100V	C30	Power board	2	1793832	0,247	£0,49	CL32B225KCJSNNE	0,132	0,26 €	0,265 €
6	10n	0805	C33, C44, C52, C57, C79, C83	Power board	12	1759246	0,011	£0,14	CL31B103KBCNNNC	0,012	0,14 €	0,139 €
5	3n3	0805	C39, C70, C71, C76, C77	Power board	10	2496782	0,004	£0,04	CL21B332KBANNNC	0,007	0,07 €	0,044 €
2	2m2	Not installed	C4, C5	Power board	4	-			-			
6	1n	0805	C40, C46, C50, C62, C63, C94	Power board	12	2407340	0,010	£0,12	CL21B102KCANNNC	0,007	0,08 €	0,078 €
1	4u7	1206, Tantalum	C42	Power board	2	1457428	0,159	£0,32	T491A475K006AT	0,073	0,15 €	0,145 €
1	470n	1812, 100V	C43	Power board	2	1828961	0,484	£0,97	CL43B474KCHNNNE	0,133	0,27 €	0,265 €
2	47p	0805	C45, C51	Power board	4	1414692	0,017	£0,07	CC0805JRNPO9470	0,009	0,04 €	0,037 €
3	2n2	0805	C47, C48, C80	Power board	6	1759235	0,016	£0,10	CL21B222KBANNND	0,007	0,04 €	0,039 €
14	100n	0603	C53, C54, C55, C59, C60, C61, C64, C68, C69, C72, C74, C78, C81, C82	Power board	28	1759016	0,006	£0,17	CL10B104KO8NNNC	0,006	0,17 €	0,167 €
5	1u	0805	C56, C58, C67, C73, C75	Power board	10	2320827	0,064	£0,64	CL21B105KAFNNNG	0,011	0,11 €	0,113 €
3	4u7	1210, 100V	C6, C7, C8	Power board	6	2211140	0,214	£1,28	-			1,620 €
1	10u	1206	C65	Power board	2	1759445	0,057	£0,11	CSMD10U1206X	0,060	0,12 €	0,120 €
1	10u	1206, Tantalum	C66	Power board	2	1457413	0,181	£0,36	T491A106K010AT	0,084	0,17 €	0,168 €
1	6n8 (X1)	THT	C84	AUX PS	1	2478385	0,236	£0,24	MKP-Y2-6N8	0,152	0,15 €	0,152 €
1	47n/400V	THT	C85	AUX PS	1	2468839	0,630	£0,63	MKP4-47N/400	0,185	0,18 €	0,185 €

Qty	Value	Package	References	Board	Qty	Order	Price	£	Mfr part			
2	22n	0805	C86, C90	AUX PS	2	1759252	0,012	£0,02	CL21B223KBANNNC	0,009	0,02 €	0,017 €
3	4u7	1210, 25V	C87, C92, C93	AUX PS	3	1907365	0,267	£0,80	CL32A475KAULNNE	0,121	0,36 €	0,364 €
1	1mF/25V	THT	C88	AUX PS	1	1800654	0,368	£0,37	RD1E108M10020BB	0,168	0,17 €	0,168 €
1	330p	0805	C89	AUX PS	1	1759212	0,030	£0,03	CL21C331JBANNNC	0,014	0,01 €	0,014 €
1	470n	0805	C9	Power board	2	2496985	0,388	£0,78	CC0805ZRY5V9474	0,012	0,02 €	0,024 €
1	100n	0805	C91	AUX PS	1	1759167	0,007	£0,01	CL21B104KBCNNNC	0,006	0,01 €	0,006 €
1	3n9	0805	C95	AUX PS	1	1759240	0,030	£0,03	CL21B392KBANNNC	0,009	0,01 €	0,009 €
1	180p	0805	C96	AUX PS	1	1759207	0,011	£0,01	CL10C181JB8NNNC	0,006	0,01 €	0,006 €
1	10u	SMD; Ø5 x 5.8mm	C97	AUX PS	1	1850112	0,206	£0,21	EEEFK1V100R	0,200	0,20 €	0,200 €
1	100u	SMD; Ø6.3 x 7.7mm	C98	AUX PS	1	1539501	0,305	£0,31	EEEFPV101XAP	0,350	0,35 €	0,350 €
1	47n	0805	C99	AUX PS	1	2496983	0,011	£0,01	CC0805KRX7R9473	0,008	0,01 €	0,008 €
4	STPS15H100	Not installed	D1, D2, D3, D4	Power board	8	-			-			
1	DFLS1100-7	SOD-323	D19	AUX PS	1	1713889	0,632	£0,63	-			0,798 €
1	SKL16	SOD-323	D20	AUX PS	1	1299282	0,186	£0,19	SKL16	0,010	0,01 €	0,010 €
1	BAS316	SOD-323	D21	AUX PS	1	8734275	0,140	£0,14	BAS316	0,020	0,02 €	0,020 €
5	BAS316	SOD-323	D22, D23, D24, D26, D27	Arduino Shield	5	8734275	0,140	£0,70	BAS316	0,020	0,10 €	0,101 €
1	SMBJ5.0A-TR	DO-214AA	D25	Arduino Shield	1			£0,00			0,00 €	0,000 €
1	BAT54S	BAT54S	D27	Arduino Shield	1			£0,00			0,00 €	0,000 €
1	SKL16	SOD-323	D28	Arduino Shield	1	1299282	0,186	£0,19	SKL16	0,010	0,01 €	0,010 €
1	STPS15H100	TO-252	D5	Power board	2	2344052	0,549	£1,10	-			1,386 €
9	BAS316	SOD-323	D6, D11, D12, D13, D14, D15, D16, D17, D18	Power board	18	8734275	0,140	£2,52	BAS316	0,020	0,36 €	0,365 €
2	DFLS1100-7	SOD-323	D7, D10	Power board	4	1713889	0,632	£2,53	-			3,190 €
2	SKL16	SOD-323	D8, D9	Power board	4	1299282	0,186	£0,74	SKL16	0,010	0,04 €	0,040 €
1	2743019447	1806	FB1	Power board	2	1463461	0,132	£0,26	BLM41PG600SN1L	0,148	0,30 €	0,164 €
3	60R@100MHz	0603	FB2, FB3, FB4	Power board	6	1635704	0,033	£0,20	LCBA-600	0,027	0,16 €	0,164 €
1	60R@100MHz	0603	FB5	AUX PS	1	1635704	0,033	£0,03	LCBA-600	0,027	0,03 €	0,027 €
2	60R@100MHz	Not installed (optional)	FB6, FB7	AUX PS	2	-			-			
1	60R@100MHz	0603	FB8	Arduino Shield	1	1635704	0,033	£0,03	LCBA-600	0,027	0,03 €	0,027 €
2	S1751-46R	Not installed (optional)	GND, SW	Power board	4	-			-			
1	LTC3864	MSOP-12	IC1	Power board	2	2293128	3,580	£7,16	-			9,035 €
1	REF5025	SOIC-8	IC10	Power board	2	1439622	2,740	£5,48	-			6,915 €
1	DAC8552	SOP-8	IC11	Power board	2	1329584	5,950	£11,90	-			15,016 €
1	ADG465SOT-23	SOT-23	IC12	Power board	2	2376952	0,677	£1,35	-			1,709 €
1	TS5A9411DCKT	SC-70	IC13	Power board	2	1755582	0,501	£1,00	-			1,264 €
1	ADS1120	TSSOP-16	IC14	Power board	2	2402249	6,430	£12,86	-			16,228 €
1	LP339D	SOIC-14	IC15	Power board	2	9589686	0,318	£0,64	LP339D	0,278	0,56 €	0,556 €
1	LM25575	HTSSOP-16	IC16	AUX PS	1	1564783	3,220	£3,22	-			4,063 €
1	MC7812	TO-252	IC17	AUX PS	1	2342561	0,289	£0,29	MC7812BDTRKG	0,191	0,19 €	0,191 €
1	TPD4E002DRLR	Not installed (optional)	IC18	AUX PS	1	-			-			
1	TPD2E001DZDR	Not installed (optional)	IC19	AUX PS	1	-			-			
1	MC79L05	SOIC-8	IC2	Power board	2	2323583	0,249	£0,50	MC79L05ACD	0,161	0,32 €	0,321 €
1	ADUM3160BRWZ	Not installed (optional)	IC20	AUX PS	1	-			-			
1	TLC5925IDBQR	SSOP-24	IC21	Arduino Shield	1	1694438	0,894	£0,89	-			1,128 €
2	Si8641EC-B-IS1	SOIC-16	IC22, IC26	Arduino Shield	2	2423294	2,870	£5,74	-			7,243 €
2	SI8651EC-B-IS1	SOIC-16	IC23, IC24	Arduino Shield	2	2423323	2,220	£4,44	-			5,603 €
1	LD1117ADT33TR	TO-252	IC25	Arduino Shield	1	1087169	0,458	£0,46	LD1117ADT33	0,506	0,51 €	0,506 €
1	PCA21125	TSSOP-14	IC27	Arduino Shield	1	2400445	1,220	£1,22	-			1,540 €
1	AT25256B	SOIC-8	IC28	Arduino Shield	1	1841577	0,757	£0,76	25AA256-I/SN	1,090	1,09 €	0,955 €
1	W5500	LQFP-48	IC29	Arduino Shield	1	-			W5500	2,660	2,66 €	2,660 €
1	MC78L05	SOIC-8	IC3	Power board	2	9593845	0,252	£0,50	MC78L05ABDG	0,165	0,33 €	0,330 €
1	BC857BS	SOT-363	IC30	Arduino Shield	1	1653608	0,108	£0,11	BC857BS	0,027	0,03 €	0,027 €
1	TLC555	SOIC-8	IC31	Arduino Shield	1	9589880	0,194	£0,19	TLC555CD	0,250	0,25 €	0,245 €
1	SN74LVC2G08DCTR	SSOP-8	IC32	Arduino Shield	1	1470871	0,314	£0,31	-			0,396 €
1	TPS3705-33D	SOIC-8	IC33	Arduino Shield	1	2296066	1,540	£1,54	-			1,943 €
1	SN74LV1T34DBVR	SOT-23	IC34	Arduino Shield	1	2499914	0,242	£0,24	-			0,305 €
1	SN74LVC2G02DCTR	SSOP-8	IC35	Arduino Shield	1	1236358	0,337	£0,34	SN74LVC2G02DCTR	0,024	0,02 €	0,024 €
1	LM5574	TSSOP-16	IC4	Power board	2	2323534	2,880	£5,76	LM5574MT	4,330	8,66 €	7,268 €
1	LP2951SO8	SOIC-8	IC5	Power board	2	1755066	0,579	£1,16	LP2951CM/NOPB	0,457	0,91 €	0,913 €

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Qty	Part	Package	Designator	Board	Qty	Order code		£	Mfr part		€	€
2	TL072D	SOIC-8	IC6, IC7	Power board	4	1467663	0,121	£0,48	TL072CD	0,169	0,68 €	0,611 €
1	OP27GSZ	SOIC-8	IC8	Power board	2	9426124	2,310	£4,62	OP27GSZ	1,450	2,90 €	2,900 €
1	MCP23S08-E/SO	SOIC-18	IC9	Power board	2	1332092	0,763	£1,53	MCP23S08-E/SO	0,960	1,92 €	1,920 €
2	BS-244DSM-R	Not installed	J1, J4	Arduino Shield	2	-			-			
1	BS-244DSM-G	Not installed	J2	Arduino Shield	1	-						
2	BS-244DSM-B	Not installed	J3, J5	Arduino Shield	2	-			-			
2	0R-JUMPA	0805	JP1, JP2	Power board	4	9233750	0,010	£0,04	SMD0805-0R	0,059	0,24 €	0,050 €
1	826926-2	Not installed (optional)	JP3	Arduino Shield	1	-						
4	0R-JUMPA	0805	JP4, JP5, JP6, JP7	Arduino Shield	4	9233750	0,010	£0,04	SMD0805-0R	0,059	0,24 €	0,050 €
2	RT424005	THT	K_PAR, K_SER	Arduino Shield	2	9950168	2,510	£5,02	RT424005	1,730	3,46 €	3,460 €
2	G6K-2F-5DC	SMD, relay	K_S1, K_S2	Arduino Shield	2	4446185	2,810	£5,62	G6K-2F-5DC	2,440	4,88 €	4,880 €
1	SK 145/37,5	THT	KK1	AUX PS	1	4621414	1,600	£1,60	-			2,019 €
1	RN114-4/02	Not installed	L1	Power board	2	-			-			
1	470u	SMD; 7.3mm x 7.3mm	L10	AUX PS	1	2455059	0,871	£0,87	DE0704-470	0,219	0,22 €	0,219 €
1	7443551331	SMD; 13.2mm x 12.8mm	L2	Power board	2	2211631	2,560	£5,12	-			6,461 €
2	IHLP2020CZER3R3M11	SMD; 5.49mm x 5.18mm	L3, L4	Power board	4	1741325	1,080	£4,32	-			5,451 €
3	2u2	1210	L5, L6, L7	Power board	6	2470305	0,205	£1,23	DLJ3015-2.2	0,266	1,60 €	1,552 €
1	2u2	1210	L8	AUX PS	1	2470305	0,205	£0,21	DLJ3015-2.2	0,266	0,27 €	0,259 €
1	100uH (MSS1260-104K)	COILCRAFT_MSS1278	L9	AUX PS	1			£0,00			0,00 €	0,000 €
1	TFT_320QVT	THT; 2x20-pin socket	LCD1	Arduino Shield	1	7992033	2,040	£2,04	ZL262-40DG	0,322	0,32 €	0,322 €
5	HSMH-C170	0805	LED_CC1, LED_CC2, LED_PROG1, LED_PROG2, LED_SP	Arduino Shield	5	5790840	0,140	£0,70	HSMH-C170	0,056	0,28 €	0,280 €
4	HSMY-C170	0805	LED_CV1, LED_CV2, LED_S1, LED_S2	Arduino Shield	4	5790876	0,140	£0,56	HSMY-C170	0,060	0,24 €	0,240 €
2	HSMG-C170	0805	LED_O1, LED_O2	Arduino Shield	2	5790852	0,150	£0,30	HSMG-C170	0,095	0,19 €	0,190 €
1	HSMR-C170	0805	LED_PWR	Arduino Shield	1	2497350	0,302	£0,30	OSB50805C1E	0,049	0,05 €	0,049 €
1	HSMY-C170	0805	LED1	Power board	2	5790876	0,119	£0,24	HSMY-C170	0,057	0,11 €	0,114 €
1	10K/Beta:3570K	0805	NTC1	Power board	2	1612623	0,264	£0,53	NTCS0805E3103JMT	0,190	0,38 €	0,380 €
1	MOC3052	SMD; SDIP-6	OK1	AUX PS	1	2453236	0,810	£0,81	MOC3052SR2VM	0,380	0,38 €	0,380 €
1	MOC3062	SMD; SDIP-6	OK2	AUX PS	1	2322554	0,478	£0,48	MOC3062-SMD-I	0,400	0,40 €	0,400 €
1	HCPL-181	SOIC-4	OK3	Arduino Shield	1	1244525	0,255	£0,26	HCPL-181-000E	0,250	0,25 €	0,250 €
1	SUD19P06-60	TO-252	Q1	Power board	2	2101465	1,470	£2,94	-			3,710 €
5	MMBT5551	SOT-23	Q12, Q13, Q16, Q18, Q19	Power board	10	1459109	0,153	£1,53	MMBT5551	0,021	0,21 €	0,208 €
1	BSS84P	SOT-23	Q14	Power board	2	1888166	0,099	£0,20	BSS84P	0,033	0,07 €	0,065 €
4	MMBT5401	SOT-23	Q2, Q10, Q11, Q17	Power board	8	1459108	0,073	£0,58	MMBT5401	0,021	0,17 €	0,170 €
2	BTA26-600	THT	Q20, Q21	AUX PS	2	1057286	2,250	£4,50	BTA26-600BRG	2,060	4,12 €	4,120 €
1	IRLL014N	SOT-232	Q22	AUX PS	1	8651183	0,504	£0,50	IRLL014NPBF	0,198	0,20 €	0,198 €
5	IRLML2246TRPBF	SOT-23	Q23, Q24, Q25, Q26, Q28	Arduino Shield	5	1888166	0,099	£0,49	IRLML2246TRPBF	0,100	0,50 €	0,500 €
3	2N7002	SOT-23	Q27, Q29, Q30	Arduino Shield	3	1713823	0,038	£0,11	2N7002	0,034	0,10 €	0,103 €
2	2N7002	SOT-23	Q3, Q15	Power board	4	1713823	0,038	£0,15	2N7002	0,034	0,14 €	0,138 €
1	IRFP250N	THT, **solder on bottom layer!**	Q4	Power board	2	8649260	2,910	£5,82	IRFP250NPBF	1,000	2,00 €	2,000 €
1	BC857C	SOT-23	Q5	Power board	2	8734771	0,022	£0,04	BC857C-DIO	0,020	0,04 €	0,040 €
1	BC846C	SOT-23	Q6	Power board	2	2453325	0,199	£0,40	BC846C-DIO	0,002	0,00 €	0,004 €
2	BCP56-16.115	SOT-223	Q7, Q9	Power board	4	1081258	0,122	£0,49	BCP56-16T1G	0,099	0,40 €	0,396 €
1	IRFR5410	TO-252	Q8	Power board	2	2468040	0,846	£1,69	IRFR5410PBF	0,550	1,10 €	1,100 €
1	12K	Not installed	R1	Power board	2	-						
1	15R/7W	THT	R102	AUX PS	1	1687978	0,327	£0,33	-			0,413 €
2	330R/2W	2512	R103, R106	AUX PS	2	2426593	0,066	£0,13	WF25P-330R-5%	0,042	0,08 €	0,084 €
2	270R	0805	R104, R107	AUX PS	2	2332064	0,016	£0,03	CRCW0805270RFKTABC	0,008	0,02 €	0,015 €
1	150R/2W	2512	R105	AUX PS	1	2117481	0,317	£0,32	WF25P-150R-5%	0,042	0,04 €	0,042 €
1	15K	0805	R108	AUX PS	1	2447595	0,002	£0,00	SMD0805-15K-1%	0,008	0,01 €	0,002 €
1	2K2	0805	R109	AUX PS	1	9237534	0,009	£0,01	SMD0805-2K2-1%	0,008	0,01 €	0,008 €
4	100K	0805	R11, R14, R73, R75	Power board	8	1887334	0,017	£0,14	SMD0805-100K-1%	0,008	0,07 €	0,066 €
1	10R	1206	R110	AUX PS	1	9236643	0,012	£0,01	CRCW120610R0FKTABC	0,014	0,01 €	0,014 €
1	5K6 1%	0805	R111	AUX PS	1	2447693	0,002	£0,00	SMD0805-5K6-1%	0,008	0,01 €	0,002 €
1	18K	0805	R112	AUX PS	1	9332723	0,002	£0,00	CRCW080518K0FKTABC	0,012	0,01 €	0,002 €
1	20K	0805	R113	AUX PS	1	2447603	0,002	£0,00	SMD0805-20K-1%	0,008	0,01 €	0,002 €
1	1K8 1%	0805	R114	AUX PS	1	2447595	0,002	£0,00	SMD0805-1K8-1%	0,008	0,01 €	0,002 €
1	100R	0805	R115	AUX PS	1	1099793	0,024	£0,02	RC0805FR-07100R	0,007	0,01 €	0,007 €

1	47K	0805	R116	AUX PS	1	2447664	0,002	£0,00	RC0805FR-0747K	0,007	0,01 €	0,003 €
1	1K	0805	R117	AUX PS	1	1099800	0,024	£0,02	RC0805FR-071K	0,007	0,01 €	0,007 €
1	5K6	0805	R118	AUX PS	1	2447693	0,002	£0,00	RC0805FR-075K6	0,007	0,01 €	0,003 €
1	10K	0805	R119	AUX PS	1	9237755	0,009	£0,01	RC0805FR-0710K	0,006	0,01 €	0,006 €
1	324K	0805	R12	Power board	2	2303817	0,014	£0,03	RC0805FR-07330K	0,008	0,02 €	0,017 €
2	22R	Not installed (optional)	R120, R121	AUX PS	2	-			-			
8	4K7	0805	R122, R123, R127, R129, R132, R133, R156, R158	Arduino Shield	8	9333266	0,012	£0,10	RC0805FR-074K7	0,007	0,06 €	0,055 €
2	1R	0805	R124, R128	Arduino Shield	2	2141629	0,016	£0,03	RC0805FR-071R	0,008	0,02 €	0,017 €
3	100K	0805	R125, R131, R142	Arduino Shield	3	1887334	0,017	£0,05	SMD0805-100K-1%	0,008	0,02 €	0,025 €
3	1K5	0805	R126, R147, R148	Arduino Shield	3	9332600	0,016	£0,05	RC0805FR-071K5	0,007	0,02 €	0,021 €
1	0R	Not installed	R13	Power board	2	-			-			
4	180R	0805	R130, R143, R144, R146	Arduino Shield	4	2447583	0,005	£0,02	SMD0805-180R-1%	0,008	0,03 €	0,025 €
4	49R9	0805	R134, R136, R137, R138	Arduino Shield	4	2141727	0,016	£0,06	RC0805FR-0749R9	0,007	0,03 €	0,028 €
5	10K	0805	R135, R141, R145, R157, R159	Arduino Shield	5	9237755	0,009	£0,05	RC0805FR-0710K	0,006	0,03 €	0,030 €
1	10R	0805	R139	Arduino Shield	1	2380677	0,111	£0,11	RC0805FR-0710R	0,007	0,01 €	0,007 €
1	12K4	0805	R140	Arduino Shield	1	2141850	0,010	£0,01	-			0,013 €
2	30K	0805	R149, R150	Arduino Shield	2	9334327	0,009	£0,02	SMD0805-30K-1%	0,008	0,02 €	0,017 €
1	4K32	0805	R15	Power board	2	2303617	0,014	£0,03	SMD0805-4K32-1%	0,008	0,02 €	0,016 €
1	100R	0805	R151	Arduino Shield	1	1099793	0,024	£0,02	RC0805FR-07100R	0,007	0,01 €	0,007 €
1	0R	0805	R152	Arduino Shield	1	9233750	0,010	£0,01	SMD0805-0R	0,059	0,06 €	0,013 €
1	10K	1206	R153	Arduino Shield	1	2331878	0,041	£0,04	HP06-10K1%	0,016	0,02 €	0,016 €
2	1K	0805	R154, R155	Arduino Shield	2	1099800	0,024	£0,05	RC0805FR-071K	0,007	0,01 €	0,014 €
1	39K	0805	R16	Power board	2	9237828	0,014	£0,03	RC0805FR-0739K	0,007	0,01 €	0,014 €
2	1K8	0805	R17, R53	Power board	4	9237526	0,014	£0,06	SMD0805-1K8-1%	0,008	0,03 €	0,033 €
1	30K	0805	R19	Power board	2	9334327	0,009	£0,02	SMD0805-30K-1%	0,008	0,02 €	0,017 €
1	R010/2W	2512, 2W	R2	Power board	2	1435947	0,390	£0,78	WW25RR010FTL	0,189	0,38 €	0,378 €
1	390R	0805	R20	Power board	2	2447645	0,009	£0,02	CRCW0805390RFKTABC	0,012	0,02 €	0,022 €
1	20K	0805	R22	Power board	2	2447603	0,002	£0,00	SMD0805-20K-1%	0,008	0,02 €	0,004 €
2	51K	0805	R23, R48	Power board	4	9334653	0,011	£0,04	RC0805FR-0751K	0,006	0,02 €	0,024 €
2	12K	0805	R24, R99	Power board	4	1469865	0,019	£0,08	RC0805FR-0712K	0,007	0,03 €	0,028 €
1	4K7	0805	R25	Power board	2	9333266	0,012	£0,02	RC0805FR-074K7	0,007	0,01 €	0,014 €
1	3K9	0805	R26	Power board	2	9333169	0,016	£0,03	RC0805FR-073K9	0,007	0,01 €	0,014 €
1	R080/3W	2512	R28	Power board	2	1435951	0,524	£1,05	-			1,322 €
1	2R2/2W	2512	R29	Power board	2	1376975	0,353	£0,71	WF25P-2R2-5%	0,042	0,08 €	0,084 €
3	0R	0805	R3, R21, R54	Power board	6	9233750	0,010	£0,06	SMD0805-0R	0,059	0,36 €	0,076 €
6	2K2	0805	R30, R32, R33, R62, R65, R91	Power board	12	9237534	0,009	£0,10	SMD0805-2K2-1%	0,008	0,10 €	0,098 €
1	16K	0805	R34	Power board	2	9332677	0,016	£0,03	SMD0805-16K-1%	0,008	0,02 €	0,016 €
2	2K	0805	R35, R59	Power board	4	2447622	0,009	£0,03	RC0805FR-072K	0,007	0,03 €	0,027 €
9	220R	0805	R36, R37, R40, R45, R55, R76, R77, R79, R80	Power board	18	1099795	0,010	£0,18	RC0805FR-07220R	0,007	0,13 €	0,126 €
2	470R	0805	R38, R50	Power board	4	1099798	0,012	£0,05	RC0805FR-07470R	0,007	0,03 €	0,028 €
4	1K	0805	R4, R31, R39, R78, R117, R154, R155	Power board	8	1099800	0,024	£0,19	RC0805FR-071K	0,007	0,06 €	0,056 €
2	7K5	0805, 0.1%	R42, R52	Power board	4	1670239	0,206	£0,82	RN73C2A7K5BTDF	0,493	1,97 €	1,040 €
1	560R	0805	R44	Power board	2	9333363	0,014	£0,03	RC0805FR-07560R	0,007	0,01 €	0,014 €
2	100K	0805, 0.1%	R46, R56	Power board	4	1577686	0,197	£0,79	RN73C2A100KBTDF	0,481	1,92 €	0,994 €
2	20K	0805, 0.1%	R47, R57	Power board	4	1575937	0,058	£0,23	TC0525B2002T1E	0,110	0,44 €	0,293 €
3	100R	0805	R5, R6, R41	Power board	6	1099793	0,024	£0,14	RC0805FR-07100R	0,007	0,04 €	0,042 €
2	180R	0805, 0.1%	R60, R70	Power board	4	1577596	0,143	£0,57	-			0,722 €
2	3K9	0805, 0.1%	R61, R69	Power board	4	1575834	0,343	£1,37	-			1,731 €
4	51R	0805, 0.1%	R63, R64, R67, R68	Power board	8	1670210	0,206	£1,65	-			2,080 €
1	R020/2W	2512, 2W	R66	Power board	2	2079436	0,220	£0,44	WW25NR020FTL	0,189	0,38 €	0,378 €
5	47K	0805	R7, R84, R85, R87, R96	Power board	10	2447664	0,002	£0,02	RC0805FR-0747K	0,007	0,07 €	0,025 €
1	11K	0805	R71	Power board	2	9332456	0,016	£0,03	CRCW080511K0FKTABC	0,008	0,02 €	0,015 €
2	10R	1206	R8, R18	Power board	4	9236643	0,012	£0,05	CRCW120610R0FKTABC	0,014	0,05 €	0,055 €
1	10R	0805	R81	Power board	2	2380677	0,111	£0,22	RC0805FR-0710R	0,007	0,01 €	0,014 €
2	330R	0805	R83, R97	Power board	4	9333037	0,002	£0,01	RC0805FR-07330RL	0,007	0,03 €	0,008 €
2	5K1	0805	R86, R98	Power board	4	9333320	0,016	£0,06	RC0805FR-075K1	0,007	0,03 €	0,028 €

Qty	Value	Package	References	Board	Qty	Order code	Price	£	Mfr part			
2	750R	0805	R88, R94	Power board	4	9333525	0,016	£0,06	CRCW0805750RFKTABC	0,012	0,05 €	0,046 €
2	5K6	0805	R89, R100	Power board	4	2447693	0,002	£0,01	RC0805FR-075K6	0,007	0,03 €	0,010 €
14	10K	0805	R9, R10, R27, R43, R49, R51, R58, R72, R74, R82, R92, R93, R95, R101	Power board	28	9237755	0,009	£0,25	RC0805FR-0710K	0,006	0,17 €	0,169 €
1	3K3	0805	R90	Power board	2	9333045	0,002	£0,00	RC0805FR-073K3	0,007	0,01 €	0,004 €
2	4x10K	1206; resistor array	RN1, RN2	Arduino Shield	2	1770137	0,015	£0,03	DR1206-10K-4/8	0,007	0,01 €	0,014 €
1	LD-BZEN-0903	THT	SG1	Arduino Shield	1	-			LD-BZEN-0903	0,483	0,48 €	0,483 €
1	A101SYCQ04	THT	SW1	Arduino Shield	1	2292959	1,960	£1,96	-			2,473 €
1	1301.9316	THT	SW2	Arduino Shield	1	1217765	0,510	£0,51	1301.9316	0,220	0,22 €	0,220 €
2	Test point	Not installed	TP1, TP2	Power board	4	-			-			
2	Test point	Not installed	TP3, TP4	Arduino Shield	2	-			-			
1	SRF0703-821M	SMD; 7.6mm x 7.6mm	TR1	Power board	2	1852832	0,730	£1,46	-			1,842 €
1	NRF24L01 module	Not installed (optional)	WIFI	Arduino Shield	1	-			-			
1	282836-3	Not installed	X1	Power board	2	-			-			
1	826629-5	Not installed (optional)	X10	AUX PS	1	-			-			
1	2411-01	THT	X11	AUX PS	1	1177884	0,717	£0,72	2411-01	0,660	0,66 €	0,660 €
1	MC000006	**THT, solder on bottom layer!**	X12	Arduino Shield	1	2007972	1,530	£1,53	-			1,931 €
2	TSW-113-07-F-D	THT	X13, X15	Arduino Shield	2	2025182	1,640	£3,28	-			4,139 €
1	MC000005	**THT, solder on bottom layer!**	X14	Arduino Shield	1	2007971	1,190	£1,19	-			1,502 €
1	9185067324	THT	X16	Arduino Shield	1	1096984	0,745	£0,75	T821-1-10-S1	0,290	0,29 €	0,290 €
1	22-23-2021	THT	X17	Arduino Shield	1	1462926	0,040	£0,04	MX-22-23-2021	0,060	0,06 €	0,050 €
1	22-23-2041	THT	X19	Arduino Shield	1	1462920	0,130	£0,13	MX-22-23-2041	0,009	0,01 €	0,009 €
1	282836-2	Not installed	X2	Power board	2	-					0,00 €	0,000 €
1	SSW-105-02-S-D	Not installed (optional)	X20	Arduino Shield	1	-					0,00 €	0,000 €
1	SSW-113-02-T-D-RA	THT	X3	Power board	2	1805583	4,170	£8,34	ZL263-26DG	0,380	0,76 €	0,759 €
1	282836-5	THT	X4	AUX PS	1	1793678	0,627	£0,63	282836-5	0,770	0,77 €	0,770 €
1	9185067324	THT	X5	AUX PS	1	1096984	0,745	£0,75	T821-1-10-S1	0,290	0,29 €	0,290 €
1	22-23-2031	THT	X6	AUX PS	1	1462950	0,616	£0,62	MX-22-23-2031	0,070	0,07 €	0,070 €
1	LMJ2138812S0LOT6C	**THT, solder on bottom layer!**	X7	AUX PS	1	-			LMJ2138812S0LOT6C	2,730	2,73 €	2,730 €
1	826629-8	THT	X8	AUX PS	1	1022256	0,084	£0,08	ZL201-08G	0,074	0,07 €	0,074 €
1	826629-5	THT	X9	AUX PS	1	1593416	0,281	£0,28	ZL201-05G	0,044	0,04 €	0,044 €
1	32,768kHz	THT	Y1	Arduino Shield	1	2449395	0,151	£0,15	32.768K-TC38	0,142	0,14 €	0,142 €
1	25MHz	SMD, 11.5mm x 4.7mm	Y2	Arduino Shield	1	2467741	0,206	£0,21	25.00M-SMDHC49S	0,359	0,36 €	0,260 €
2	n.c.	Not installed	ZD1, ZD2	Power board	4	-			-			
2	SMAJ18A	DO-214AC	ZD10, ZD11	Arduino Shield	2	1749305	0,040	£0,08	P4SMAJ18A-DIO	0,105	0,21 €	0,100 €
1	BZX384-C4V3	SOD-323	ZD12	Arduino Shield	1	8735697	0,133	£0,13	BZT52C4V3-DIO	0,019	0,02 €	0,019 €
1	See Note 3.2	Not installed	ZD3	Power board	2	-			-			
1	BZX384-C15.115	SOD-323	ZD4	Power board	2	8735506	0,133	£0,27	BZX384-C15.115	0,019	0,04 €	0,038 €
1	PDZ6.2B	SOD-323	ZD5	Power board	2	1757863	0,194	£0,39	PDZ6.2B	0,019	0,04 €	0,037 €
2	P4SMAJ48A	DO-214AC	ZD8, ZD9	Arduino Shield	2	1749310	0,157	£0,31	P4SMAJ48A-DIO	0,102	0,20 €	0,204 €
								192,31 €			**70,79 €**	**181,10 €**

Qty	Value	Package	References	Board	Qty	Order code	Price	£	Mfr part			
AUX PS 230 V version												
1	CG2-470L	THT	SAR1	AUX PS	1	1846854	1,390	£1,39	CG2-470L	1,457	1,46 €	1,457 €
1	TEZ6/D230/15V	THT	TR2	AUX PS	1	-			TEZ6/D/12V	2,720	2,72 €	2,720 €
2	S20K250	THT	VAR1, VAR2	AUX PS	2	1004357	0,563	£1,13	SIOV-S20K250	0,537	1,07 €	1,074 €
2	1.5KE400CA	THT	ZD6, ZD7	AUX PS	2	2341650	0,304	£0,61	1.5KE400CA	0,239	0,48 €	0,478 €
								£3,12			**5,73 €**	**5,73 €**

Qty	Value	Package	References	Board	Qty	Order code	Price	£	Mfr part			
AUX PS 115 V version												
1	2027-23-BLF	THT	SAR1	AUX PS	1	1780455	1,393	£1,39	CG2-230L	1,230	1,23 €	1,230 €
1	VPP24-210	THT	TR2	AUX PS	1	-			-			
2	S20K140	THT	VAR1, VAR2	AUX PS	2	1004387	0,742	£1,48	SIOV-S20K140	0,690	1,38 €	1,380 €
2	1.5KE200CA	THT	ZD6, ZD7	AUX PS	2	1837117	0,383	£0,77	1.5KE200CA	0,040	0,08 €	0,080 €
								£3,64			**2,69 €**	**2,69 €**

Qty	Value	Package	References	Board	Qty	Order code	Price	£	Mfr part			
Optional AUX PS parts (USB isolator, ethernet and USB protection)												
5	100n	0603	C100, C101, C102, C103, C104	AUX PS	5	1759016	0,006	£0,03	CL10B104KO8NNNC	0,006	0,03 €	0,030 €
1	TPD4E002DRLR		IC18	AUX PS	1	1755329	0,341	£0,34	-			0,430 €

Qty	Part	Package	Reference	Board	Qty	Order code	Unit	£	Mfr part	Unit	€	Total
1	TPD2E001DZDR		IC19	AUX PS	1	2335446	0,380	£0,38	-			0,480 €
1	ADUM3160BRWZ		IC20	AUX PS	1	1843660	5,160	£5,16	ADUM3160BRWZ-RL	5,970	5,97 €	5,970 €
2	60R@100MHz	0603, Ferrite bead 60R	FB6, FB7	AUX PS	2	1635704	0,033	£0,07	LCBA-600	0,027	0,05 €	0,055 €
2	22R		R120, R121	AUX PS	2	9332847	0,002	£0,00	RC0805FR-0722R	0,007	0,01 €	0,004 €
1	826629-5	5-pin 0.1" header	X10	AUX PS	1	1593416	0,281	£0,28	ZL201-05G	0,044	0,04 €	0,044 €
								£6,26			**6,11 €**	**7,01 €**

	AUX PS mechanical											
1	MB60251V1-G99	-	12V fan 60x60mm	AUX PS	1	-			MB60251V1-G99	4,090	4,09 €	4,090 €
4	B3X14/BN3320		Screwed spacer sleeve; hexagonal; M3, 14 mm	AUX PS	4	1466812	0,330	£1,32	B3X14/BN3320	0,309	1,24 €	1,238 €
1	Schurter KM00.1105.11	-	IEC inlet, switch	AUX PS	1	1162776	7,190	£7,19	KM00.1105.11	7,160	7,16 €	7,160 €
1	Schurter 4301.1403	-	2 fuse drawer	AUX PS	1	1162737	2,640	£2,64	4301.1403	1,370	1,37 €	1,370 €
								£11,15			**13,86 €**	**13,86 €**

	Power module AC input option											
2	2m2	THT	C4, C5	Power board	4	1822562	1,651	£6,60	UVR1H222MHD	1,100	4,40 €	4,400 €
	Option #1: UVZ1H222MHD	THT	C4, C5	Power board	0	-			UVZ1H222MHD	0,973	0,97 €	
	Option #2: UVZ1J222MHD	THT	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	-			5,542 €
1	12K	1206	R1	Power board	2	1100220	0,013	£0,03	RC1206JR-0712K	0,006	0,01 €	0,013 €
1	282836-2	THT	X2	Power board	2	3089034	0,264	£0,53	282836-2	0,270	0,54 €	0,540 €
1	INDEL TST450/014	-	Transformer: toroidal; 450VA; 230VAC; 2x40V; 2x5.62A; 4kg	-	1	-			TST450/014	35,900	35,90 €	35,900 €
								£11,55			**43,42 €**	**46,39 €**

Important: max. input voltage for LTC3864 is 65VDC. Therefore main transformer secondary voltage should not exceed 44VAC in any case.

	Power module DC input option											
3	100n	1206	C1, C2, C3	Power board	6	2497072	0,035	£0,21	C1206C104K5RAC	0,013	0,08 €	0,080 €
1	RN114-4-02	THT	L1	Power board	2	1191484	2,180	£4,36	CAF-3.1-1.2	1,820	3,64 €	3,640 €
1	282836-3	THT	X1	Power board	2	3089046	0,361	£0,72	282836-3	0,470	0,94 €	0,911 €
1	MEAN WELL LRS-150-48	-	Pwr sup.unit: switched-mode; modular; 158.4W; 48VDC; 0.48kg	Power board	2	-		0,000		LRS-150-48	18,010	36,02 €	36,020 €
1	TFF-M3X40/DR124	-	Screwed spacer sleeve; M3, 40mm	Power board	2	-		0,000		TFF-M3X40/DR124	0,156	0,31 €	0,312 €
								£5,29			**40,99 €**	**40,96 €**

	Power module mechanical											
1	RAD-A4463/120	-	Heatsink 70 x 120 mm	Power board	2	-			RAD-A4463/120	1,340	2,68 €	2,680 €
4	TFM-M3X6/DR213	-	Screwed spacer sleeve; M3; 6 mm	Power board	8	-			TFM-M3X6/DR213	0,089	0,71 €	0,713 €
								£0,00			**3,39 €**	**3,39 €**

	Arduino shield additional parts											
1	Arduino Due rev3 or search for clones on eBay, AliExpress, etc.	-	32-bit MCU, 3.3V	Arduino Shield	1	2250861	32,940	£32,94	A000062	36,500	36,50 €	36,500 €
1	TFT_320QVT		**Option #1:** http://eckstein-shop.de/32-inch-240x320-TFT-with-Touch-panel_1	-	1							
			Option #2: search on eBay, etc. for *3.2" TFT LCD Display Module + Touch Panel +SD Reader (before buy check model name, screen site and resolution, total physical dimension 65x95mm, 40-pin connector and controller type SSD1289)*									
								£32,94			**36,50 €**	**36,50 €**

	Arduino shield and enclosure mechanical											
2	BS-244DSM-R	Binding post 4mm, red	J1, J4	Arduino Shield	2	1815818	2,120	£4,24	BS-244DSM-R	1,140	2,28 €	2,280 €
1	BS-244DSM-G	Binding post 4mm, green	J2	Arduino Shield	1	1815820	2,170	£2,17	BS-244DSM-G	1,140	1,14 €	1,140 €
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 €
2	NSR-08	-	Plug; female; PIN:8 w/o terminals for Ethernet cable	Arduino Shield	2	-			NSR-08	0,086	0,17 €	0,171 €
1	NSR-05	-	Plug; female; PIN:5 w/o terminals for USB cable	Arduino Shield	1	-			NSR-05	0,026	0,03 €	0,026 €
21	NDR-T	-	Contact; female; 28÷22AWG; NSR/NDR; tinned	Arduino Shield	21	-			NDR-T	0,026	0,55 €	0,554 €
9	TFM-M5X8/DR218	Extend binding post for PCB mounting	Screwed spacer sleeve; M5; 8mm; brass	Arduino Shield	9	-			TFM-M5X8/DR218	0,187	1,68 €	1,681 €
4	DR316/3.2X5	5 mm between TFT display and front panel	Spacer sleeve; 5mm; cylindrical; brass	Arduino Shield	4	1733405	0,065	£0,26	DR316/3.2X5	0,057	0,23 €	0,228 €
4	TP-11	11 mm between TFT display and PCB	Screwed spacer sleeve; hexagonal; polyamide; M3	Arduino Shield	4	2494576	0,238	£0,95	TP-11	0,128	0,51 €	0,512 €
4	B3/BN1074		Plastic washer; round; M3	Arduino Shield	4	-			B3/BN1074	0,008	0,03 €	0,032 €
11	PLP2-625	Light pipe for LED	Round; Ø3mm; Front: convex; straight	Arduino Shield	11	2293496	0,362	£3,98	PLP2-625	0,486	5,35 €	5,025 €
								£15,82			**14,25 €**	**13,93 €**

All prices are net prices (without VAT)

Description	Price
PSU basic parts (2x40V/5A)	181,10 €
Power module DC input parts	40,96 €
Power module mechanical	3,39 €
Power module PCB	???
AUX PS 230V option	5,73 €
AUX PS mechanical	13,86 €
AUX PS PCB	???
Arduino Due (eBay)	12,99 €
TFT_320QVT (eBay)	10,16 €
Arduino shield and enclosure mechanical	13,93 €
Custom metal enclosure	???
	282,12 €

e.g. http://www.ebay.de/itm/DUE-R3-SAM3X8E-32-bit-ARM-Cortex-M3-Control-Board-Module-USB-Cable-For-Arduino-/301921886011?hash=item464bf25f3b:g:iuUAAOSwjMJXBgBX
e.g. http://www.ebay.de/itm/331563289696?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT

All prices are net prices (without VAT)