

**EEZ PSU Arduino Shield BOM (r3B4, 2016-07-23)**  
Project source code at <https://github.com/eez-open>

									GBP/EUR ratio:		1,19457			
Qty	Part name	Package	Reference designator	Qty	Code	Farnell Unit price	Total	Code	TME Unit price	Total	Combined	THT	SMD	
6	Arduino Due header 1x8-pin, Ethernet header	THT	ADCL, ADCH, Comm, PWML, PWMH, X18	6	1022256	0,084	£0,50	ZL201-08G	0,065	0,39 €	0,389 €	6		
2	470n	0805, 50V	C104, C109	2	2470492	0,043	£0,09	CL21B474KBFNNNG	0,015	0,03 €	0,031 €		2	
8	10n	0805	C105, C108, C110, C112, C133, C146, C154, C155	8	1759246	0,011	£0,09	CL31B103KBCNNNC	0,012	0,10 €	0,096 €		8	
2	UPW1J150MED	SMD; Ø6.3x5.8mm	C106, C111	2	2326151	0,222	£0,44	UWT1H220MCL6GS	0,088	0,18 €	0,176 €		2	
2	10u	1210, 50V, X7R	C107, C125	2	2362133	0,995	£1,99	CL32B106KBJNNNE	0,203	0,41 €	0,406 €		2	
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	27	2496832	0,006	£0,16	CL10B104KO8NNNC	0,004	0,12 €	0,119 €		27	
1	47u	SMD, Ø6.3 x 5.8mm	C119	1	9695850	0,247	£0,25	EEEFK1V470P	0,153	0,15 €	0,153 €		1	
1	10u	SMD; Ø5 x 5.8mm	C120	1	1850112	0,206	£0,21	EEEFK1V100R	0,200	0,20 €	0,200 €		1	
1	EECS5R5H105	THT	C127	1	9697497	2,780	£2,78	EECS5R5H105	2,190	2,19 €	2,190 €	1		
1	22n	0805	C130	1	1759252	0,021	£0,02	CL21B223KBANNNC	0,008	0,01 €	0,008 €		1	
2	18p	0805	C131, C135	2	2320820	0,038	£0,08	CL21C180JBANNNC	0,010	0,02 €	0,019 €		2	
2	6n8	0603	C132, C134	2	1759100	0,009	£0,02	CL10B682JB8NNNC	0,004	0,01 €	0,008 €		2	
1	10u	1206, Tantalum	C144	1	1457413	0,177	£0,18	T491A106K010AT	0,085	0,09 €	0,085 €		1	
1	4u7	1206, Tantalum	C145	1	1457428	0,162	£0,16	T491A475K006AT	0,075	0,08 €	0,075 €		1	
2	47n	0805	C148, C152	2	2496983	0,011	£0,02	CC0805KRX7R9473	0,008	0,02 €	0,016 €		2	
1	22n	0805	C29	1	1759252	0,021	£0,02	CL21B223KBANNNC	0,008	0,01 €	0,008 €		1	
5	BAS316	SOD-323	D22, D23, D24, D26, D27	5	8734275	0,140	£0,70	BAS316	0,019	0,09 €	0,093 €		5	
1	SMBJ5.0A-TR	DO-214AA	D26	1	9886311	0,086	£0,09	SMBJ5.0A-TR	0,094	0,09 €	0,094 €		1	
1	BAT54S	BAT54S	D28	1	1621835	0,086	£0,09	BAT54S.215	0,017	0,02 €	0,017 €		1	
1	SKL16	SOD-323	D29	1	8738025	0,146	£0,15	SKL16	0,019	0,02 €	0,019 €		1	
1	60R@100MHz	0603	FB7	1	1635704	0,171	£0,17	LCBA-600	0,027	0,03 €	0,027 €		1	
1	TLC5925IDBQR	SSOP-24	IC20	1	1694438	1,010	£1,01	-			1,207 €		1	
2	Si8641EC-B-IS1	SOIC-16	IC21, IC24	2	2423294	2,870	£5,74	-			6,857 €		2	
2	Si8651EC-B-IS1	SOIC-16	IC22, IC23	2	2423323	2,220	£4,44	-			5,304 €		2	
1	LD1117ADT33TR	TO-252	IC24	1	1087169	0,259	£0,26	LD1117ADT33	0,315	0,32 €	0,309 €		1	
1	PCA21125T/Q900/1,1	TSSOP-14	IC26	1	2400445	1,380	£1,38	-			1,649 €		1	
1	AT25256B	SOIC-8	IC27	1	1841577	0,905	£0,91	25AA256-I/SN	1,290	1,29 €	1,081 €		1	
1	W5500	LQFP-48	IC28	1	-			W5500	2,500	2,50 €	2,500 €		1	
1	BC857BS	SOT-363	IC29	1	1653608	0,108	£0,11	BC857BS	0,027	0,03 €	0,027 €		1	
1	TLC555	SOIC-8	IC30	1	9589880	0,240	£0,24	TLC555CDR	0,365	0,37 €	0,287 €		1	
1	SN74LVC2G08DCTR	SSOP-8	IC31	1	1470871	0,314	£0,31	-			0,375 €		1	
1	TPS3705-33D	SOIC-8	IC32	1	2296066	0,812	£0,81	-			0,970 €		1	
1	SN74LV1T34DBVR	SOT-23	IC33	1	2499914	0,334	£0,33	-			0,399 €		1	
1	SN74LVC2G02DCTR	SSOP-8	IC34	1	1236358	0,360	£0,36	SN74LVC2G02DCTR	0,024	0,02 €	0,024 €		1	
5	0R	0805	JP4, JP5, JP6, JP7, JP8	5	9233750	0,007	£0,04	SMD0805-0R	0,058	0,29 €	0,042 €		5	
2	RT424005	THT	K_PAR, K_SER	2	9950168	2,430	£4,86	RT424005	1,260	2,52 €	2,520 €	2		
2	G6K-2F-5DC	SMD, relay	K_S1, K_S2	2	4446185	2,810	£5,62	G6K-2F-5DC	2,490	4,98 €	4,980 €		2	
1	TFT_320QVT	THT; 2x20-pin socket	LCD1	1	7992033	2,040	£2,04	ZL262-40DG	0,322	0,32 €	0,322 €	1		
5	HSMH-C170	0805	LED_CC1, LED_CC2, LED_PROG1, LED_PROG2, LED_SP	5	5790840	0,144	£0,72	HSMH-C170	0,056	0,28 €	0,280 €		5	
4	HSMY-C170	0805	LED_CV1, LED_CV2, LED_S1, LED_S2	4	5790876	0,144	£0,58	HSMY-C170	0,060	0,24 €	0,240 €		4	
2	HSMG-C170	0805	LED_O1, LED_O2	2	5790852	0,147	£0,29	HSMG-C170	0,095	0,19 €	0,190 €		2	
1	HSMR-C170	0805	LED_PWR	1	5790864	0,172	£0,17	HSMR-C170	0,059	0,06 €	0,059 €		1	
1	HCPL-181	SOIC-4	OK3	1	1244525	0,255	£0,26	HCPL-181-000E	0,250	0,25 €	0,250 €		1	
5	IRLML2246TRPBF	SOT-23	Q23, Q24, Q25, Q26, Q28	5	1888166	0,212	£1,06	IRLML2246TRPBF	0,100	0,50 €	0,500 €		5	
3	2N7002	SOT-23	Q27, Q29, Q30	3	1713823	0,093	£0,28	2N7002LT1G	0,019	0,06 €	0,057 €		3	
9	4K7	0805	R134, R135, R137, R139, R141, R144, R145, R169, R171	9	9333266	0,016	£0,14	RC0805FR-074K7	0,006	0,06 €	0,058 €		9	
2	1R	0805	R136, R140	2	2141629	0,017	£0,03	RC0805FR-071R	0,009	0,02 €	0,019 €		2	

## EEZ PSU Arduino Shield BOM (r3B4, 2016-07-23)

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

2	1K8	0805	R138, R159	2	2447595	0,005	£0,01	SMD0805-1K8-1%	0,008	0,02 €	0,012 €	2	
4	180R	0805	R142, R155, R156, R158	4	2447583	0,005	£0,02	SMD0805-180R-1%	0,008	0,03 €	0,024 €	4	
2	100K	0805	R143, R154	2	2352619	0,063	£0,13	SMD0805-100K-1%	0,008	0,02 €	0,016 €	2	
4	49R9	0805	R146, R148, R149, R150	4	2141727	0,016	£0,06	RC0805FR-0749R9	0,007	0,03 €	0,029 €	4	
5	10K	0805	R147, R153, R157, R170, R172	5	9237755	0,009	£0,05	RC0805FR-0710K	0,007	0,03 €	0,033 €	5	
1	10R	1206	R151	1	9236643	0,013	£0,01	CRCW120610R0FKTABC	0,014	0,01 €	0,014 €	1	
1	12K4	0805	R152	1	2141850	0,002	£0,00	-			0,002 €	1	
2	750R	0805	R160, R161	2	9333525	0,016	£0,03	CRCW0805750RFKTABC	0,012	0,02 €	0,023 €	2	
2	47K	0805	R162, R163	2	2447664	0,005	£0,01	RC0805FR-0747K	0,007	0,01 €	0,012 €	2	
1	100R	0805	R164	1	1759246	0,011	£0,01	RC0805FR-07100R	0,007	0,01 €	0,007 €	1	
2	5K1	0805	R165, R166	2	9333320	0,016	£0,03	RC0805FR-075K1	0,007	0,01 €	0,013 €	2	
2	1K	0805	R167, R168	2	1099800	0,009	£0,02	RC0805FR-071K	0,007	0,01 €	0,013 €	2	
2	4x10K	1206; resistor array	RN1, RN2	2	1770137	0,088	£0,18	DR1206-10K-4/8	0,007	0,01 €	0,013 €	2	
1	LD-BZEN-0903	THT	SP1	1	-			LD-BZEN-0903	0,508	0,51 €	0,508 €	1	
1	A101SYCQ04	THT	SW1	1	2292959	1,960	£1,96	-			2,341 €	1	
1	1301.9316	SMD; tactile switch	SW2	1	1217765	0,510	£0,51	1301.9316	0,220	0,22 €	0,220 €	1	
1	MC000006	THT, solder on bottom layer!	X12	1	2007972	1,530	£1,53	-			1,828 €	1	
2	TSW-113-07-F-D	THT	X13, X15	2	2025182	1,640	£3,28	-			3,918 €	2	
1	MC000005	THT, solder on bottom layer!	X14	1	2007971	1,190	£1,19	-			1,422 €	1	
1	9185067324	THT	X16	1	1096984	0,745	£0,75	T821-1-10-S1	0,290	0,29 €	0,290 €	1	
1	22-23-2021	THT	X17	1	1462926	0,040	£0,04	MX-22-23-2021	0,070	0,07 €	0,048 €	1	
1	826629-8	THT	X18	1	1022256	0,084	£0,08	ZL201-08G	0,065	0,06 €	0,065 €	1	
1	22-23-2041	THT	X19	1	1462920	0,130	£0,13	MX-22-23-2041	0,106	0,11 €	0,106 €	1	
1	32,768kHz	THT	Y1	1	1611828	0,131	£0,13	32.768K-TC38	0,144	0,14 €	0,144 €	1	
1	25MHz	SMD, 11.5mm x 4.7mm	Y2	1	2467741	0,111	£0,11	25.00M-SMDHC49S	0,373	0,37 €	0,133 €	1	
2	SMAJ18A	DO-214AC	ZD10, ZD11	2	1749305	0,040	£0,08	P4SMAJ18A-DIO	0,105	0,21 €	0,095 €	2	
1	BZX384-C4V3	SOD-323	ZD12	1	8735697	0,133	£0,13	BZT52C4V3-DIO	0,019	0,02 €	0,019 €	1	
2	P4SMAJ48A	DO-214AC	ZD8, ZD9	2	1749310	0,157	£0,31	P4SMAJ48A-DIO	0,102	0,20 €	0,204 €	2	
							£50,97			20,95 €	46,28 €	21	153

## Not installed

1	826926-2	THT	JP3	1	-		-				-	-
1	NRF24L01 module	THT	WIFI	1	-		-				-	-
1	SSW-105-02-S-D	THT	X20	1	-		-				-	-

## Other

2	BS-244DSM-R	Binding post 4mm, red	J1, J4	2	1815818	2,120	£4,24	BS-244DSM-R	1,120	2,24 €	2,240 €	-	-
1	BS-244DSM-G	Binding post 4mm, green	J2	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	2	1815819	2,110	£4,22	BS-244DSM-B	1,140	2,28 €	2,280 €	-	-
1	Arduino Due			1	-			Eckstein	19,480	19,48 €	19,480 €	-	-
1	3.2" TFT LCD			1	-			Eckstein	12,140	12,14 €	12,140 €	-	-
1	USB adapter cable	Search for <i>micro usb 5pin male to 1x 5Pin Female 0.1" USB</i> (e.g. <a href="http://www.aliexpress.com/store/product/Free-Shipping-50CM-micro-usb-5pin-male-to-1x-5Pin-Female-0-1-USB-header-PCB/1171008_32233605468.html">http://www.aliexpress.com/store/product/Free-Shipping-50CM-micro-usb-5pin-male-to-1x-5Pin-Female-0-1-USB-header-PCB/1171008_32233605468.html</a> )		1								-	-
2	NSR-08	Plug; female; PIN:8 w/o terminals for Ethernet cable		2	-			NSR-08	0,086	0,17 €	0,171 €	-	-
1	NSR-05	Plug; female; PIN:5 w/o terminals for USB cable		1	-			NSR-05	0,026	0,03 €	0,026 €	-	-
21	NDR-T	Contact; female; 28÷22AWG; NSR/NDR; tinned		21	-			NDR-T	0,026	0,55 €	0,554 €	-	-
9	Screwed spacer sleeve; M5; 8mm; brass	Extend binding post for PCB mounting	n/a	9	-			TFM-M5X8/DR218	0,187	1,68 €	1,681 €	-	-

# EEZ PSU Arduino Shield BOM (r3B4, 2016-07-23)

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

4	Spacer sleeve; 5mm; cylindrical; brass	5 mm between TFT display and front panel	n/a	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	n/a	4	2494576	0,238	£0,95	TP-11	0,128	0,51 €	0,512 €	-	-
4	Plastic washer; round; M3			4	-			B3/BN1074	0,008	0,03 €	0,032 €	-	-
11	Light pipe for LED	Round; Ø3mm; Front: convex; straight	n/a	11	2293496	0,362	£3,98	PLP2-625	0,486	5,35 €	4,757 €	-	-
							<b>£15,82</b>			<b>45,81 €</b>	<b>45,22 €</b>		

All prices are net prices (without VAT)