				·		Farnell / Element	14	Digi-Ke	у	Mouse	r	
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price MOQ	Part Number	Unit price MC	Q Part Number	Unit price €	MOQ
1	2	2n2 (Y2)	THT; 10x4mm; RM7.5, film or ceramic, min. 230 Vac	C1, C6	-			VY2222M31Y5V S63V7	0,155 10	81- DE2E3SA222MA 3BT2F	0,194	10
2	2	100n	0603	C17, C18	2522597	C0603C104K4RAC 7081	0,011 10	490-4774-1-ND	0,029 10	0 80- C0603C104M4R	0,007	100
3	3	100n (X2)	<b>THT</b> ; 18x5mm; RM15, min. 230 Vac	C2, C3, C4	2763161	R46KI310000M1M	0,315 1	399-6806-ND	0,380 1	80- R46KI310000M1 M	0,333	1
4	1	47n/400V (X2)	<b>THT</b> ; 13x5mm; RM10	C5	2728564	B32921C3473K000	0,452 1	399-11478-ND	0,319 10	871- B32921C3473K	0,264	10
5	5	1u	0805	C7, C10, C11, C15, C16	2896566	VJ0805Y105KXXT W1BC	0,084 5	587-1283-1-ND	0,090 10	603- CC805MKX7R7B B105	0,062	10
6	3	EEEFK1V470P		C8, C9, C14	9695850	EEEFK1V470P	0,344 1	PCE3842CT-ND	0,312 10	667-EEE- FK1V470P	0,238	10
7	2	BAS316	SOD-323	D2, D3	8734275	BAS316,115	0,193 5	1727-7370-1-ND	0,120 1	771-BAS316-T/R	0,179	1
8	1	SKL14	SOD-123	D5	2760412	PMEG4010EGWX	0,204 5	1727-7335-1-ND	0,243 10	9 841- PMEG4010EGW X	0,188	10
9	1	BD00FC0WFP-E2	TO-252-5	IC1	3010961	BD00FC0WFP-E2	0,736 1	BD00FC0WFP- E2CT-ND	0,830 1	755- BD00FC0WFP- E2	0,786	1
10	1	MAX31760AEE+	QSOP-16	IC2	2528719	MAX31760AEE+	1,210 1	MAX31760AEE+- ND	2,400 1	700- MAX31760AEE+	1,210	1
11	1	PF0030/PC	THT; AC inlet	J1	428784	PF0030/PC	3,700 1	708-1914-ND	5,730 1	161-PF0030/PC	6,050	1
12	2	1-726388-2	THT; PCB terminal; 4.8mm	J2, J3	2308760	1-726388-2	0,167 100	A121493-ND	0,178 10	571-726388-2	0,133	10
13	1	SWEB 8094 AU/GN	THT; 4mm PE connector	J4	-			-		-		
14	2	RT424005	THT; 8A relay	K1, K2	1629052	RT424005	2,900 1	PB1998-ND	3,620 1	655-RT424005	2,820	1
15	1	2200HT-221-V-RC	THT; differential mode choke	L1	2519581	2200HT-221-V-RC	2,640 1	2200HT-221-V- RC-ND	2,830 1	542-2200HT- 221V-RC	2,250	1
16	1	RN222-4-02-3M3	THT; common mode choke	L2	2851207	RN222-4-02-3M3	2,120 1	817-2209-ND	2,140 1	631-RN222-4-02- 3M3	2,050	1
17	2	VLS6045AF-3R3N	Power inductor 6.7x6.7x2.8mm	L3, L4	1741325	IHLP2020CZER3R 3M11	1,940 5	445-180834-1- ND	0,510 1	810-VLS6045AF- 3R3N	0,510	1
18	1	WP934CB/YD	THT; LED 3mm; yellow	LED1	-			754-1300-ND	0,420 1	604- WP934CB/YD	0,390	1
19	1	B57236S0200M	<b>THT</b> ; NTC; 11.5 X 6 mm	NTC1	9751890	B57236S0200M	0,872 1	495-3047-ND	0,780 1	871- B57236S200M	0,757	1
20	2	MMBT5551	SOT-23	Q1, Q2	1459109	MMBT5551LT1G	0,154 5	MMBT5551LT1G OSCT-ND	0,180 1	863- MMBT5551LT1G	0,170	1
21	1	2N7002	SOT-23	Q3	1713823	2N7002-7-F	0,118 5	2N7002LT1GOS CT-ND	0,150 1	863- 2N7002LT1G	0,128	1

			RS Components  TME  Price calculation for 1 set								1 oot				
#				KS Componer	its		INE					Pri	Lowest	ion tor	1 Set
#	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	2	2n2 (Y2)	-				CY2Y-2N2	0,107	10	2		TME	0,107€	2	0,214
2	2	100n	393-6952	VJ0603Y104KXJ AT	0,069	25	CL10B104KA8NNNC	0,098	100		2	Mouser	0,007€	2	0,014
3	3	100n (X2)	144-7753	F863BC104K31 0Z	0,131	20	R46Kl310000M1M	0,129	10	3		TME	0,129€	3	0,387
4	1	47n/400V (X2)	882-9483	B32921C3473M 000	0,272	25	MKP-X2-47NR10/310	0,077	10	1		TME	0,077€	1	0,077
5	5	1u	451-5770	C0805C105K4R ACTU	0,028	25	CL21B105KOFNNNE	0,010	100		5	TME	0,010€	5	0,052
6	3	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5		3	TME	0,130€	3	0,390
7	2	BAS316	397-2914	BAS316,115	0,122	50	BAS316,115	0,026	25		2	TME	0,026€	2	0,053
8	1	SKL14	153-0632	PMEG4010EGW X	0,078	100	SKL14-DIO	0,053	10		1	TME	0,053€	1	0,053
9	1	BD00FC0WFP-E2	184-7499	BD00FC0WFP- E2	0,876	10	-				1	Farnell	0,736€	1	0,736
10	1	MAX31760AEE+	-				-				1	Farnell	1,210€	1	1,210
11	1	PF0030/PC	261-5834	PF0030/PC	3,700	1	PF0030/PC	2,360	1	1		TME	2,360 €	1	2,360
12	2	1-726388-2	680-5772	1-726388-2	0,055	100	61-3162-11/0030	0,033	50	2		TME	0,033€	2	0,066
13	1	SWEB 8094 AU/GN	-				SWEB 8094 AU/GN	2,130	1	1		TME	2,130 €	1	2,130
14	2	RT424005	-				RT424005	1,150	5	2		TME	1,150€	2	2,300
15	1	2200HT-221-V-RC	-				-			1		Mouser	2,250€	1	2,250
16	1	RN222-4-02-3M3	219-3429	RN222-4-02- 3M3	2,420	1	-			1		Mouser	2,050€	1	2,050
17	2	VLS6045AF-3R3N	-				HPI0630-3R3	0,335	1		2	TME	0,335€	2	0,670
18	1	WP934CB/YD	-				L-934CB/1YD	0,206	5	1		TME	0,206 €	1	0,206
19	1	B57236S0200M	-				B57236S0200	0,370	5	1		TME	0,370€	1	0,370
20	2	MMBT5551	545-0400	MMBT5551LT1 G	0,146	10	MMBT5551	0,024	25		2	TME	0,024 €	2	0,048
21	1	2N7002	545-0012	2N7002LT1G	0,126	50	2N7002LT1G	0,025	25		1	TME	0,025€	1	0,025

28 2 3K3 0805 R8, R9 2447651 MCWR08X3301FT 0,010 10 A129755CT-ND 0,045 10 FKEB		Mouser			y	Digi-Ke	Farnell / Element14								
23   2   4K7   0805   R12, R15   2861530   CRGCQ0805F4K7   0,009   10   311-4,70KCRCT-   0,000   1   603-RC0805FR-   0710RL   0710RL   0805   1   0803-RC0805FR-   0710RL   0805   R3, R4, R10, R11, R14   1099800   WCR0805-1K0FI   0,019   10   RC0805FR-   0,039   10   603-RC0805FR-   071KL   0805   R5, R7   2447646   MCWR08X3902FT   0,010   10   RMCF0805FT39   0,024   10   652-CR0805FX-   0805   R6   1099798   WCR0805-470RFI   0,019   10   311-470CRCT-   0,039   10   71-6RCW0805470FF   0805   R8, R9   2447651   MCWR08X3301FT   0,010   10   4129755CT-ND   0,045   10   10   10   10   10   10   10   1	price MOQ	Unit price €	Part Number	MOQ	Unit price €	Part Number	MOQ	Unit price €	Part Number	Code	Reference designator	Package	ety Part name	Qty	#
1   10   10   10   10   10   10   10	0,037 10	0,037			0,064		10	0,014	MCWR12X4703FT L	2447519	R1, R2	1206, min. 150V, 1% or 5%	2 470K	2	22
Part	0,026 10	0,026			0,090		10	0,009	CRGCQ0805F4K7	2861530	R12, R15	0805	2 4K7	2	23
26   2   39K   0805   R5, R7   2447646   MCWR08X3902FT   0,010   10   RMCF0805FT39   0,024   10   652-CR0805FX-3902ELF   71   470R   0805   0805   R6   1099798   WCR0805-470RFI   0,019   10   311-470CRCT- ND   0,039   10   71-CRCW0805470RF1   7	0,034 10	0,034			0,071		10	0,050		9236643	R13	0805	1 10R	1	24
L   KOCT-ND   3902ELF	0,015 10	0,018			0,039		10	0,019	WCR0805-1K0FI	1099800	R3, R4, R10, R11, R14	0805	5 1K	5	25
28 2 3K3 0805 R8, R9 2447651 MCWR08X3301FT 0,010 10 A129755CT-ND 0,045 10  29 1 2051-47-SM-RPLF Surge arrester SAR1 -	0,017 10	0,017		10	0,024		10	0,010	MCWR08X3902FT L	2447646	R5, R7	0805	2 39K	2	26
L  29 1 2051-47-SM-RPLF Surge arrester SAR1 - 2051-47-SM-RPLFCT-ND 0,700 1 652-2051-47-SM-RPLF  30 1 DF62J12S2AHQA THT; PCB AC switch SW1 2435277 DF62J12S2AHQA 4,680 1 CKN2062-ND 4,520 1 611-DF62J12S2AHQA  31 1 IRM-10-5 THT; AC/DC Power Module 5V/2A 20W; 85-264Vin TR1 2815498 IRM-10-5 8,440 1 1866-3032-ND 8,220 1 709-IRM10-5  32 1 IRM-10-12 THT; AC/DC Power Module 12V/0.85A 10W; 85-264Vin TR2 2815494 IRM-10-12 8,440 1 1866-3028-ND 8,220 1 709-IRM10-12 12V/0.85A 10W; 85-264Vin TR2 2815494 IRM-10-12 8,440 1 1866-3028-ND 8,220 1 667-ERZ-E11A431	0,041 10		CRCW0805470R		0,039		10	0,019	WCR0805-470RFI	1099798	R6	0805	1 470R	1	27
30 1 DF62J12S2AHQA THT; PCB AC switch SW1 2435277 DF62J12S2AHQA 4,680 1 CKN2062-ND 4,520 1 611-DF62J12S2AHQA 31 1 IRM-10-5 THT; AC/DC Power Module 5V/2A 20W; 85-264Vin TR2 2815498 IRM-10-12 8,440 1 1866-3032-ND 8,220 1 709-IRM10-12 12V/0.85A 10W; 85-264Vin THT; AC/DC Power Module 17R2 2815494 IRM-10-12 8,440 1 1866-3028-ND 8,220 1 709-IRM10-12 12V/0.85A 10W; 85-264Vin THT; Varistor RM7.5 VAR1, VAR2, VAR3 2291831 ERZE11A431 0,678 1 P16688-ND 0,460 1 667-ERZ-E11A431				10	0,045	A129755CT-ND	10	0,010		2447651	R8, R9	0805	2 3K3	2	28
31     1     IRM-10-5     THT; AC/DC Power Module 5V/2A 20W; 85-264Vin     TR1     2815498     IRM-10-5     8,440     1     1866-3032-ND     8,220     1     709-IRM10-5       32     1     IRM-10-12     THT; AC/DC Power Module 12V/0.85A 10W; 85-264Vin     TR2     2815494     IRM-10-12     8,440     1     1866-3028-ND     8,220     1     709-IRM10-12       33     3     ERZE14A431 or V275LA20AP     THT; Varistor RM7.5     VAR1, VAR2, VAR3     2291831     ERZE11A431     0,678     1     P16688-ND     0,460     1     667-ERZ-E11A431	0,684 1	- 0,684	652-2051-47-SM- RPLF		0,700					-	SAR1	Surge arrester	1 2051-47-SM-RPLF	1	29
5V/2A 20W; 85-264Vin  32	5,310 1		DF62J12S2AHQ		4,520	CKN2062-ND	1	4,680	DF62J12S2AHQA	2435277	SW1	THT; PCB AC switch	1 DF62J12S2AHQA	1	30
12V/0.85A 10W; 85-264Vin  33 3 ERZE14A431 or V275LA20AP  THT; Varistor RM7.5 VAR1, VAR2, VAR3 2291831 ERZE11A431 0,678 1 P16688-ND 0,460 1 667-ERZ-E11A431	8,520 1	8,520	709-IRM10-5	1	8,220	1866-3032-ND	1	8,440	IRM-10-5	2815498	TR1		1 IRM-10-5	1	31
V275LA20AP	8,520 1	8,520	709-IRM10-12	1	8,220	1866-3028-ND	1	8,440	IRM-10-12	2815494	TR2	,	1 IRM-10-12	1	32
<b>34</b> 1 39-28-1063 <b>THT</b> ; Mini-Fit Jr.; 4.2mm, 6-pin X1 9732101 39-28-1063 0,688 1 WM3802-ND 0,860 1 538-39-28-1063	0,468 1	0,468			0,460	P16688-ND	1	0,678	ERZE11A431	2291831	VAR1, VAR2, VAR3	THT; Varistor RM7.5			33
	0,760 1	0,760	538-39-28-1063	1	0,860	WM3802-ND	1	0,688	39-28-1063	9732101	n X1	THT; Mini-Fit Jr.; 4.2mm, 6-pi	1 39-28-1063	1	34
<b>35</b> 1 39-30-1039 <b>THT</b> ; Mini-Fit Jr.; 4.2mm, 3-pin X2 1829076 39-30-1039 0,585 1 WM18442-ND 0,570 1 538-39-30-1039	0,430 1	0,430	538-39-30-1039	1	0,570	WM18442-ND	1	0,585	39-30-1039	1829076	n X2	THT; Mini-Fit Jr.; 4.2mm, 3-pi	1 39-30-1039	1	35
36 1 DS1013-16SSIB1 THT; 16-pin IDC socket; male X3 2843530 MC-254-16-00-ST- 0,220 1 ED10523-ND 0,350 1 710-61201621621	0,540 1	0,540	-		,	ED10523-ND	1	0,220		2843530	2 X3	THT; 16-pin IDC socket; male	1 DS1013-16SSIB1	1	36
<b>37</b> 1 22-27-2031 <b>THT</b> ; 3-pin 0.1" X4; fan connector 9731156 22-27-2031 0,212 100 WM4112-ND 0,330 1 538-22-27-2031	0,323 1											· •			
38         1         MM3Z18VT1G         SOD-323         ZD1         1431193         MM3Z18VT1G         0,109         10         MM3Z18VT1GO         0,103         10         863-MM3Z18VT1G           SCT-ND         MM3Z18VT1G         MM3Z18VT1G         MM3Z18VT1G         MM3Z18VT1G	0,108 10	0,108			0,103		10	0,109	MM3Z18VT1G	1431193	Ζυ1	SOD-323	1 MM3Z18VT1G	1	38

	Not installed			
1	N.C.	0805	C12, C13	
1	N.C.	0603	C19	
1	N.C.	<b>THT</b> ; 18x5mm; RM15, min. 230 Vac	C20	
1	SMBJ5.0CA	DO-214AA	D1	

				RS Componer	nts		TME					Pri	ce calculat	ion for	1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best	Lowest unit price	Order	Line Cost €
	۵.,	. a.t.namo	5545		€			€			02	Supplier	€	Qty	20 0001 0
22	2	470K	223-2619	CRG1206F470K	0,013	50	1206S4J0474T5E	0,012	100		2	TME	0,012€	2	0,024
23	2	4K7	223-0528	CRG0805F4K7	0,010	50	0805S8F4701T5E	0,022	100		2	Farnell	0,009€	2	0,017
24	1	10R	740-9085	CR1206-FX- 10R0ELF	0,036	50	CRCW120610R0FKTA BC	0,031	100		1	TME	0,031€	1	0,031
25	5	1K	223-0427	CRG0805F1K0	0,017	50	RC0805FR-071K	0,022	100		5	Mouser	0,015€	5	0,075
26	2	39K	679-1336	CRCW080539K 0FKEA	0,038	50	0805S8J0393T5E	0,013	100		2	Farnell	0,010€	2	0,019
27	1	470R	223-0376	CRG0805F470R	0,021	50	RC0805FR-07470R	0,022	100		1	Farnell	0,019€	2	0,038
28	2	3K3	223-0499	CRG0805F3K3	0,027	50	805S8F3301T5E	0,015	100		2	Farnell	0,010€	2	0,019
29	1	2051-47-SM-RPLF	-				-				1	Mouser	0,684 €	1	0,684
30	1	DF62J12S2AHQA	154-3601	DF62J12S2AHQ A	4,920	1	DF62J12S2AHQA	3,869	1	1		TME	3,869€	1	3,869
31	1	IRM-10-5	135-8929	IRM-10-5	8,440	1	IRM-10-5	6,100	1	1		TME	6,100 €	1	6,100
32	1	IRM-10-12	135-8930	IRM-10-12	8,440	1	IRM-10-12	6,100	1	1		TME	6,100 €	1	6,100
33	3	ERZE14A431 or V275LA20AP	785-8904	ERZE11A431	0,251	25	V275LA20AP	0,201	5	3		TME	0,201 €	3	0,603
34	1	39-28-1063	484-1906	39-28-1063	0,696	1	MX-5566-06A	0,272	2	1		TME	0,272€	1	0,272
35	1	39-30-1039	670-5751	39-30-1039	0,584	5	MX-5566-03A3	0,548	1	1		Mouser	0,430 €	1	0,430
36	1	DS1013-16SSIB1	771-8357	61201621621	0,540	1	DS1013-16SSIB	0,130	5	1		TME	0,130€	1	0,130
37	1	22-27-2031	483-8477	22-27-2031	0,226	10	MX-6410-03A	0,112	13	1		TME	0,112€	1	0,112
38	1	MM3Z18VT1G	802-4574	MM3Z18VT1G	0,038	200	MM3Z18VT1G	0,025	25		1	TME	0,025€	1	0,025
										21	35			<u>'</u>	33,59 €
		Not installed					I								
		N.C.									1	Farnell	0,000€		0,000
		N.C.								1	1	Farnell Farnell	0,000 € 0,000 €		0,000 0,000
	1	SMBJ5.0CA									1	Farnell	0,000€	1	0,000

## EEZ DIB AUX-PS BOM (r3B5, 2020-11-25)

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

					Farnell / Element1	4	Digi-Key	1	Mouser		
# Q	y Part name	Package	Reference designator	Code	Part Number	Unit price MOQ €	Part Number	Unit price MOQ €	Part Number	Unit price MO	
1	SMBJ12CA	DO-214AA	D4								
1	BAS316	SOD-323	D6								
1	TLP291(GB.SE(T	SOIC-4	OK1	2524307	TLP291(GB,SE		TLP291(GBSE- ND		757- TLP291GBSE	0,364 1	
2	N.C.	0805	R16, R17								
2	4K7	0805	R18, R19	2861530	CRGCQ0805F4K7	,	311-4.70KCRCT- ND		603-RC0805FR- 074K7L	0,026 10	
3	Test points		TP1	-							
1	22-27-2031	THT; 3-pin 0.1"	X5; fan connector	9731156	22-27-2031	0,212 100	WM4112-ND	0,330 1	538-22-27-2031	0,323 1	
2	N.C.	SOD-123	ZD2, ZD3								

# **Custom made components**

PCB 2-layer 230.5 x 60 ALLPCB.com mm, recommended copper thickness: 70 μm (2 oz)

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. 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.

All resistors are 1% 0805 and all capacitors are X7R 0805 if not otherwise specified.

Total

39,99€

						•	rojoot couros cous ut mi	,,		- 0,00.		pou			
				RS Componer	nts		TME					Pri	ce calculat	ion for	1 set
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	тнт	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
	1	SMBJ12CA									1	Farnell	0,000€	1	0,000
	1	BAS316									1	Farnell	0,000€	1	0,000
	1	TLP291(GB.SE(T	885-0960	TLP291(GB,SE( T	0,176	50	TLP291-GB.SE-T	0,146	5		1	TME	0,146€	1	0,146
	2	N.C.									2	Farnell	0,000€	2	0,000
	2	4K7	223-0528	CRG0805F4K7	0,010	50	0805S8F4701T5E	0,022	100		2	Farnell	0,009€	2	0,017
	3	Test points					TEST-5	0,082	10	3		TME	0,082€	3	0,246
	1	22-27-2031	483-8477	22-27-2031	0,226	10	MX-6410-03A	0,112	13	1		TME	0,112€	1	0,112
	2	N.C.									2	Farnell	0,000€	2	0,000
		Custom made compone	ı												
	1	PCB 2-layer 230.5 x 60 mm, recommended copper thickness: 70 µm (2 oz)										ALLPCB	6,400 €	1	6,400
															6,40 €