

EEZ DIB AUX-PS BOM (r3B2, 2018-06-18)
Project source code at <https://github.com/eez-open/modular-psu>

#	Farnell / Element14								Digi-Key			Mouser		
	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
1	2	47n/400V (X2)	THT; 13x5mm; RM10	C1, C2	2728564	B32921C3473K000	0,452	1	399-11478-ND	0,319	10	871-B32921C3473K	0,264	10
2	2	4u7	1206 or 1210	C11, C15	1907356	C3216X7R1E475K160AC	0,240	5	1276-2970-1-ND	0,199	10	963-EMK316B7475ML-T	0,129	10
3	4	1u	0805	C3, C4, C6, C7	2896566	VJ0805Y105KXXTW1BC	0,084	5	587-1283-1-ND	0,090	10	603-CC805MKX7R7B B105	0,062	10
4	1	EEEFK1V470P		C5	9695850	EEEFK1V470P	0,344	1	PCE3842CT-ND	0,312	10	667-EEE-FK1V470P	0,238	10
5	3	100n	0603	C8, C9, C10	2522597	C0603C104K4RAC7081	0,011	10	490-4774-1-ND	0,029	100	80-C0603C104M4R	0,007	100
6	1	SKL16	SOD-123	D1	1510688	PMEG4005EH	0,291	5	1727-3876-1-ND	0,440	1	771-PMEG4005EH-T/R	0,410	1
7	1	BD00FC0WFP	TO-252-5	IC1	3010961	BD00FC0WFP-E2	0,736	1	BD00FC0WFP-E2CT-ND	0,830	1	755-BD00FC0WFP-E2	0,786	1
8	1	MAX31760AEE+	QSOP-16	IC2	2528719	MAX31760AEE+	1,210	1	MAX31760AEE+-ND	2,400	1	700-MAX31760AEE+	1,210	1
9	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
10	3	4907	THT, PCB terminal; 4.8mm	J2, J3, J4	-				36-4907-ND	0,260	1	534-4907	0,257	1
11	1	SWEB 8094 AU/GN	THT, 4mm PE connector	J5	-				-			-		
12	1	HS-142-25	SK129-PAD	KK1	1319810	SK 129 25,4 STS	2,460	1	-			-		
13	1	RN212-2-02-1M8	THT; Common Mode Choke; 2 A, 1.8 mH	L1	-				817-2173-ND	1,580	1	631-RN212-2-02-1M8	1,400	1
14	1	OSY5LU3E34X-3F1A	THT; LED 3mm; yellow	LED1	-				-			-		
15	1	B57236S0200M	NTC11.5X6	NTC1	9751890	B57236S0200M	0,872	1	495-3047-ND	0,780	1	871-B57236S200M	0,757	1
16	1	MOC3052	SMD; SDIP-6	OK1	2453236	MOC3052SM	0,668	1	MOC3052SM-ND	1,030	1	512-MOC3052SM	0,774	1
17	1	MOC3062	SMD; SDIP-6	OK2	2322554	MOC3062SR2VM	0,900	1	MOC3062SM-ND	1,270	1	512-MOC3062SM	0,944	1
18	2	BTA26-600	THT; triac 26 A, 600 V	Q1, Q2	1057286	BTA26-600BRG	3,000	1	497-2427-5-ND	3,370	1	511-BTA26-600B	3,360	1
19	3	2N7002	SOT-23	Q3, Q4, Q5	1713823	2N7002-7-F	0,118	5	2N7002LT1GOSCT-ND	0,150	1	863-2N7002LT1G	0,128	1
20	2	2K2	0805	R1, R5	9237534	RC0805FR-072K2L	0,037	10	311-2.20KCRCT-ND	0,039	10	603-RC0805FR-072K2L	0,026	10
21	1	10K	0805	R11	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
22	1	470R	0805	R12	1099798	WCR0805-470RFI	0,019	10	311-470CRCT-ND	0,039	10	71-CRCW0805470RFKEB	0,041	10
23	2	4K7	0805	R15, R20	2861530	CRGCQ0805F4K7	0,009	10	311-4.70KCRCT-ND	0,090	1	603-RC0805FR-074K7L	0,026	10
24	3	1K	0805	R16, R17, R19	1099800	WCR0805-1K0FI	0,019	10	RC0805FR-071KL	0,039	10	603-RC0805FR-071KL	0,015	10
25	2	10R	0805	R18, R22	9236643	RC1206FR-0710RL	0,050	10	311-10.0CRCT-ND	0,071	10	603-RC1206FR-0710RL	0,034	10

RS Components							TME			THT	SMD	Price calculation for 1 set			
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ			Best Supplier	Lowest unit price €	Order Qty	Line Cost €
1	2	47n/400V (X2)	882-9483	B32921C3473M000	0,272	25	MKP-X2-47NR10/310	0,077	10	2		TME	0,077 €	2	0,154
2	2	4u7	691-1221	C1206C475K3R ACTU	0,232	25	GCM31CR71E475KA5 5L	0,381	10		2	Mouser	0,129 €	2	0,258
3	4	1u	451-5770	C0805C105K4R ACTU	0,028	25	CL21B105KOFNNNE	0,010	100		4	TME	0,010 €	4	0,042
4	1	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5		1	TME	0,130 €	1	0,130
5	3	100n	393-6952	VJ0603Y104KXJ AT	0,069	25	CL10B104KA8NNNC	0,098	100		3	Mouser	0,007 €	3	0,021
6	1	SKL16	485-571	PMEG4005EH	0,105	20	SKL16-DIO	0,044	25		1	TME	0,044 €	1	0,044
7	1	BD00FC0WFP	184-7499	BD00FC0WFP- E2	0,876	10					1	Farnell	0,736 €	1	0,736
8	1	MAX31760AEE+	-				-				1	Farnell	1,210 €	1	1,210
9	1	PF0030/PC	261-5834	PF0030/PC	3,700	1	PF0030/PC	2,360	1	1		TME	2,360 €	1	2,360
10	3	4907	-				61-1537-11/0031	0,049	10	3		TME	0,049 €	3	0,146
11	1	SWEB 8094 AU/GN	-				SWEB 8094 AU/GN	2,130	1	1		TME	2,130 €	1	2,130
12	1	HS-142-25	189-8139	SK129-25,4- STS-220	2,820	1	HS-142-25	1,350	1	1		TME	1,350 €	1	1,350
13	1	RN212-2-02-1M8	-				-			1		Mouser	1,400 €	1	1,400
14	1	OSY5LU3E34X-3F1A	-				OSY5LU3E34X-3F1A	0,115	5		1	TME	0,115 €	1	0,115
15	1	B57236S0200M	-				B57236S0200	0,370	5		1	TME	0,370 €	1	0,370
16	1	MOC3052	761-3690	MOC3052SM	1,030	5	MOC3052S	0,288	2		1	TME	0,288 €	1	0,288
17	1	MOC3062	806-6064	MOC3062SM	0,786	10	MOC3062XSM	0,500	1		1	TME	0,500 €	1	0,500
18	2	BTA26-600	714-0515	BTA26-600BRG	3,710	1	BTA26-600BRG	1,290	1	2		TME	1,290 €	2	2,580
19	3	2N7002	545-0012	2N7002LT1G	0,126	50	2N7002LT1G	0,025	25		3	TME	0,025 €	3	0,074
20	2	2K2	679-1207	CRCW08052K2 0FKEA	0,039	50	SMD0805-2K2-1%	0,022	100		2	TME	0,022 €	2	0,045
21	1	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		1	RS	0,002 €	1	0,002
22	1	470R	223-0376	CRG0805F470R	0,021	50	RC0805FR-07470R	0,022	100		1	Farnell	0,019 €	2	0,038
23	2	4K7	223-0528	CRG0805F4K7	0,010	50	SMD0805-4K7-1%	0,022	100		2	Farnell	0,009 €	2	0,017
24	3	1K	223-0427	CRG0805F1K0	0,017	50	RC0805FR-071K	0,022	100		3	Mouser	0,015 €	3	0,045
25	2	10R	740-9085	CR1206-FX- 10R0ELF	0,036	50	CRCW120610R0FKTA BC	0,031	100		2	TME	0,031 €	2	0,062

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						Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
26	2	270R	0805	R2, R9	2073716	MCMR08X271 JTL	0,009	10	RMCF0805FT27 0RCT-ND	0,025	10	652-CR0805FX- 2700ELF	0,013	10
27	4	330R/2W	2512	R3, R4, R6, R8	1265196	3520330RJT	0,105	10	RMCF2512JT33 0RCT-ND	0,227	10	279-3520330RJT	0,073	10
28	4	47K	0805	R7, R10, R13, R14	2447664	MCWR08X4702FT L	0,009	10	RHM47KKCT-ND	0,036	10	603-RC0805FR- 0747KL	0,014	10
29	1	CG2-470L	THT; Surge arrester	SAR1	1846854	2027-47-BLF	1,110	1	2027-47-BLF-ND	1,200	1	652-2027-47-BLF	1,160	1
30	1	DF62J12S2AHQA	THT; PCB AC switch	SW1	2435277	DF62J12S2AHQA	4,330	1	CKN2062-ND	4,340	1	611- DF62J12S2AHQ A	4,830	1
31	1	OS102011MA1QN1C	THT; slide switch; SPDT	SW2	2931778	OS102011MA1QN 1C	0,389	1	CKN9559-ND	0,340	1	611- OS102011MA1Q N1C	0,314	1
32	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	8,520	1
33	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	8,520	1
34	2	ERZE14A431 or V275LA20AP	THT; Varistor RM7.5	VAR1, VAR2	2291831	ERZE11A431	0,678	1	P16688-ND	0,460	1	667-ERZ- E11A431	0,468	1
35	1	39-28-1063	THT; Mini-Fit Jr.; 4.2mm, 6-pin	X1	9732101	39-28-1063	0,688	1	WM3802-ND	0,860	1	538-39-28-1063	0,760	1
36	1	39-30-1039	THT; 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
37	1	ZL231-16PG	THT; 16-pin IDC socket; male	X3	2843530	MC-254-16-00-ST- DIP	0,220	1	ED10523-ND	0,350	1	710- 61201621621	0,540	1
38	1	47053-1000	THT; 4-pin 0.1"	X4; fan connector	2313705	47053-1000	0,288	100	WM4330-ND	0,371	10	538-47053-1000	0,329	10

Not installed														
1	N.C.	0805	C18											
1	N.C.	0805	R21	-										
3	Test points		TP1, TP2, TP3	-										
1	47053-1000	THT; 4-pin 0.1"	X5; fan connector	2313705	47053-1000	0,288	100	WM4330-ND	0,371	10	538-47053-1000	0,329	10	
2	1.5KE400CA	THT; TVS bidirectional	ZD1, ZD2	2341650	1.5KE400CARL	0,722	1	1.5KE400CA- TPMSCT-ND	0,550	1	833- 1.5KE400CA-TP	0,536	1	
2	N.C.	SOD-123	ZD3, ZD4											

Related parts and accessories														
1	FC16150-S	16-pin IDC cable 15cm	-						H3CCS-1606G- ND	1,170	1	-		
1	MF80251V3-1000U-G99	80x80x25mm, 12Vdc fan												
4	FSP-2	Fastener for fans and protections												
1	FG-08	Finger guard; 80x80mm												
?	1	3248.1001	Enclosure handle											
1	47054-1000	4-pin receptacle for X4, X5	2751642	47054-1000	0,041	100	WM3285-ND	0,090	1	538-47054-1000	0,087	1		
4	08-50-0114	Pins for X4, X5	1462641	08-50-0114	0,073	100	WM1114-ND	0,141	10	538-08-50-0114	0,100	10		
1	39-01-4030	Receptacle for X2	9963480	39-01-4030	0,204	10	WM18434-ND	0,260	1	538-39-01-4030	0,272	1		
1	39-01-2060	Receptacle for X1	151868	39-01-2060	0,277	100	WM3702-ND	0,330	1	538-39-01-2060	0,340	1		

#	RS Components						TME			THT	SMD	Price calculation for 1 set			
	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ			Best Supplier	Lowest unit price €	Order Qty	Line Cost €
26	2	270R	223-0348	CRG0805F270R	0,025	50	SMD0805-270R-1%	0,023	100		2	Farnell	0,009 €	2	0,018
27	4	330R/2W	755-1224	3521330RFT	0,281	10	WF25P-330R-5%	0,072	50		4	TME	0,072 €	4	0,286
28	4	47K	679-1434	CRCW080547K0FKEA	0,036	50	RC0805FR-0747K	0,022	100		4	Farnell	0,009 €	4	0,038
29	1	CG2-470L	878-3652	CG2-470L	1,943	10	CG2-470L	1,480	1	1		Farnell	1,110 €	1	1,110
30	1	DF62J12S2AHQA	154-3601	DF62J12S2AHQA	4,690	1	DF62J12S2AHQA	3,336	1	1		TME	3,336 €	1	3,336
31	1	OS102011MA1QN1C	787-4855	OS102011MA1QN1	0,540	1	OS102011MA1QN1C	0,310	1	1		TME	0,310 €	1	0,310
32	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
33	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
34	2	ERZE14A431 or V275LA20AP	785-8904	ERZE11A431	0,251	25	V275LA20AP	0,201	5	2		TME	0,201 €	2	0,402
35	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
36	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
37	1	ZL231-16PG	771-8357	61201621621	0,540	1	ZL231-16PG	0,130	5	1		TME	0,130 €	1	0,130
38	1	47053-1000	144-8185	470531000	0,322	10	MX-47053-1000	0,108	5	1		TME	0,108 €	1	0,108
										22	41	32,76 €			

Not installed															
1	N.C.									1		Farnell	0,000 €	1	0,000
1	N.C.									1		Farnell	0,000 €	1	0,000
3	Test points						TEST-5	0,082	10	3		TME	0,082 €	3	0,246
1	47053-1000	144-8185	470531000	0,322	10		MX-47053-1000	0,108	5	1		TME	0,108 €	1	0,108
2	1.5KE400CA	486-4381	1.5KE400CA	0,932	5		1.5KE400CA	0,316	3	2		TME	0,316 €	2	0,632
2	N.C.									2					

Related parts and acces:															
1	FC16150-S	-					FC16150-S	1,310	1			Digikey	1,170 €	1	1,170
1	MF80251V3-1000U-G99						MF80251V3-1000U-G99	2,040	1			TME	2,040 €	1	2,040
4	FSP-2						FSP-2	0,142	5			TME	0,142 €	4	0,566
1	FG-08						FG-08	0,524	1			TME	0,524 €	1	0,524
?	1 3248.1001						MR-3248.1001	4,350	1			TME	4,350 €	1	4,350
1	47054-1000	720-5990	47054-1000	0,215	10		MX-47054-1000	0,036	20			TME	0,036 €	1	0,036
4	08-50-0114	172-9178	08-50-0114	0,075	100		MX-0850-0114	0,058	10			TME	0,058 €	4	0,231
1	39-01-4030	510-9685	39-01-4030		5		MX-5557-03R2	0,159	5			TME	0,159 €	1	0,159
1	39-01-2060	484-1760	39-01-2060	0,280	5		MX-5557-06R	0,104	5			TME	0,104 €	1	0,104

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9	39-00-0078	Pins for X1, X2			9732675	39-00-0078	0,094	100	WM9154-ND	0,137	10	538-39-00-0078	0,112	10
3	ST-004/3	4.8mm terminal; flat for J2, J3, J4			-				A122464-ND	0,131	10	571-60196-3	0,132	10

Custom made components

1	PCB 2-layer 230.5 x 60 mm	ALLPCB.com	-
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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.

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

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	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ			Best Supplier	Lowest unit price €	Order Qty	Line Cost €
9	39-00-0078	215-5887	39-00-0078	0,154	100	MX-5556-T3L	0,082	10				TME	0,082 €	9	0,735
3	ST-004/3	719-6987	60196-3	0,096	100	ST-004/3	0,042	20	3			TME	0,042 €	3	0,127
															10,04 €
Custom made compoener															
1	PCB 2-layer 230.5 x 60 mm											ALLPCB	6,200 €	1	6,200
															6,20 €
Total															49,00 €