

EEZ DIB AUX-PS BOM (r1B2, 2018-12-30)
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	1	DB107S	SMD; DBS	B1	1861409	DB107S	0.518	5	1655-1822-1-ND	0.410	1	750-DB107S-G	0.434	1
2	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
3	3	3n3	C-EUC0805	C10, C11, C17	1856458	MCSH21B332K250 CT	0.039	5	732-8036-1-ND	0.033	10	710-885012207063	0.072	10
4	2	4u7	1206	C13, C19	1907356	C3216X7R1E475K 160AC	0.240	5	1276-2970-1-ND	0.199	10	963-EMK316B7475M L-T	0.129	10
5	1	EEEFK1V470P	ECAPPANASONIC_H	C14	9695850	EEEFK1V470P	0.344	1	PCE3842CT-ND	0.312	10	667-EEE-FK1V470P	0.238	10
6	1	CY1Y-470P	C-EUCY	C15	2860164	VY1471K31Y5UQ6 TV0	0.220	1	BC2372-ND	0.206	10	72-VY1471M31Y5U Q63V0	0.186	10
7	1	1500u/16	THT; Ø12.5; RM5	C18	2465622	860010275018	0.489	1	732-8920-1-ND	0.420	1	647-UHD1C152MHD	0.456	10
8	2	33n	0805	C21, C23	1414688	C0805C333K5RAC TU	0.051	10	1276-1796-1-ND	0.068	10	77-VJ0805Y333JXA PBC	0.020	50
9	1	18p	0603, C0G	C22	2896373	VJ0603A180JXAC W1BC	0.016	10	1276-1089-1-ND	0.048	10	80-C0603C180J5G7 867	0.023	10
10	1	2n2	0805	C24	2896572	VJ0805Y222KXAC W1BC	0.028	10	720-1604-1-ND	0.063	10	77-VJ0805Y222KXB AC	0.032	50
11	1	1u	0805	C3	2896566	VJ0805Y105KXXT W1BC	0.084	5	587-1283-1-ND	0.090	10	603-CC805MKX7R7B B105	0.062	10
12	1	10u	1206	C4	2494299	GRM32DR71C106 KA01L	0.508	1	1276-1150-1-ND	0.246	10	963-EMK325B7106M NHTR	0.213	10
13	2	470u/16V	THT; Ø8; RM3.5	C5, C12	2346502	16PK470MEFC8X1 1.5	0.206	5	493-1286-ND	0.215	10	647-UVZ1C471MPD1 TD	0.194	10
14	2	100n	0603	C6, C16	2522597	C0603C104K4RAC 7081	0.011	10	490-4774-1-ND	0.029	100	80-C0603C104M4R	0.007	100
15	1	1n/1kV	1210	C7	2812601	885342209006	0.580	5	732-12116-1-ND	0.380	1	710-885342209006	0.357	1
16	2	UCY2G6R8MPD	ECAP5G_10.5MM	C8, C9	1831309	400BXC6R8MEFC 10X16	0.868	1	493-13319-1-ND	0.730	1	647-UCY2G6R8MPD	0.629	1
17	1	SKL16	SOD-123	D1	1510688	PMEG4005EH		5	1727-3876-1-ND		1	771-PMEG4005EH-T/R		1
18	2	SS110	SMB	D2, D4	1861422	SS110B	0.097	5	SS110-TPCT-ND	0.350	1	833-SS110FL-TP	0.323	1
19	1	US1K-DIO	DO-214AA	D3	2677418	US1K	0.352	1	US1KHE3_A/HGI CT-ND	0.380	1	621-US1KSAFS-13	0.323	1
20	1	SK55	SMB	D5	1299291	SK54C	0.624	5	SK55L-TPMSCT-ND	0.440	1	833-SK55L-TP	0.434	1

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#	RS Components						TME					Price calculation for 1 set			
	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
1	1	DB107S	917-8966	DB107S	0.108	100	DB107S	0.130	5		1	RS	0.108 €	1	0.108
2	2	47n/400V (X2)	882-9483	B32921C3473M000	0.272	25	MKP-X2-47NR10/310	0.077	10	2		TME	0.077 €	2	0.154
3	3	3n3	237-7009	GRM216R71H332KA01D	0.060	50	VJ0805Y333KXACW1BC	0.023	100		3	TME	0.023 €	3	0.069
4	2	4u7	691-1221	C1206C475K3R ACTU	0.232	25	GCM31CR71E475KA55L	0.381	10		2	Mouser	0.129 €	2	0.258
5	1	EEEFK1V470P	537-0657	EEEFK1V470P	0.394	5	EEEFK1V470P	0.130	5		1	TME	0.130 €	1	0.130
6	1	CY1Y-470P	736-8858	VY1471K31Y5U Q6TV0	0.100	10	CY1Y-470P	0.099	10	1		TME	0.099 €	1	0.099
7	1	1500u/16	852-5011	UPM1C152MHD1TO	0.690	1	UPW1C152MHD	0.219	25	1		TME	0.219 €	1	0.219
8	2	33n	652-0982	VJ0805Y333KX AAT	0.066	25	CL21B333KBANNNC	0.035	100		2	Mouser	0.020 €	2	0.040
9	1	18p	147-415	C0603C180J5G ACTU	0.032	50	CL10C180JB8NNNC	0.015	100		1	TME	0.015 €	1	0.015
10	1	2n2	264-4359	C0805C222K5R ACTU	0.031	25	VJ0805Y222KXACW1BC	0.020	100		1	TME	0.020 €	1	0.020
11	1	1u	451-5770	C0805C105K4R ACTU	0.028	25	CL21B105KOFNNNE	0.010	100		1	TME	0.010 €	1	0.010
12	1	10u	103-4184	EMK325B7106K N-T	0.188	20	CL32B106KBJNNNE	0.201	10		1	RS	0.188 €	1	0.188
13	2	470u/16V	845-4666	UVZ1C471MPD	0.215	25	UVZ1C471MPD	0.140	5	2		TME	0.140 €	2	0.279
14	2	100n	393-6952	VJ0603Y104KXJ AT	0.069	25	CL10B104KA8NNNC	0.098	100		2	Mouser	0.007 €	2	0.014
15	1	1n/1kV	500-2499	C1210C102JDG ACTU	0.880	5	1210B102K102CT	0.343	10		1	TME	0.343 €	1	0.343
16	2	UCY2G6R8MPD	739-4551	UCA2G6R8MPD	1.008	1	UCY2G6R8MPD	0.240	5	2		TME	0.240 €	2	0.480
17	1	SKL16	485-571	PMEG4005EH		20	SKL16		5		1	Farnell	0.000 €	1	0.000
18	2	SS110	743-5992	SS110 R3	0.154	25	SS110-JGD	0.053	5		2	TME	0.053 €	3	0.159
19	1	US1K-DIO	751-5130	US1K-13-F	0.106	25	US1K-DIO	0.067	10		1	TME	0.067 €	1	0.067
20	1	SK55	652-6255	SK54C R6	0.472	25	SK55-DIO	0.116	5		1	TME	0.116 €	1	0.116

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	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
21	2	BAS316	DIODESOD323R	D6, D7	8734275	BAS316,115	0.193	5	1727-7370-1-ND	0.120	1	771-BAS316-T/R	0.179	1
22	1	AMC6821SDBQR		IC1	-				296-41200-1-ND	3.900	1	595-AMC6821SDBQR	2.750	1
23	1	VIPer35L		IC2	2612169	VIPER35LD	1.130	1	497-16075-5-ND	1.040	1	511-VIPER35LD	1.040	1
24	1	TL431	SOT-23-3	IC3	2095473	TL431BMFDT	0.118	5	1727-1982-1-ND	0.300	1	595-TL431ACDBZR	0.315	1
25	1	PF0030/PC		J1	428784	PF0030/PC	3.700	1	708-1914-ND	5.730	1	161-PF0030/PC	6.050	1
26	3	1-726388-2	THT; 4.8mm PE flat connector	J2, J3, J4	2308760	1-726388-2	0.090	100	1-726388-2-ND	0.230	1	571-1-726388-2	0.193	10
27	1	SWEB 8094 AU/GN	THT, 4mm PE connector	J5	-				-			-		
28	1	HS-142-25	SK129-PAD	KK1	1319810	SK 129 25,4 STS	2.460	1	-			-		
29	1	BLM21PG331SH1D	0805	L1	2443254	BLM21PG331SH1D	0.077	10	490-7823-1-ND	0.150	1	81-BLM21PG331SH1D	0.145	1
30	1	RLB0812-471KL	SMD; 470 uH	L2	-				RLB0812-471KL-ND	0.136	1	652-RLB0812-471KL	0.238	1
31	1	DLG-0403-180	DE0403	L3	SDR0403-180ML	SDR0403-180M	0.404	5	SDR0403-180MLCT-ND	0.424	10	652-SDR0403-180ML	0.272	10
32	1	ECS-MPIL0630-150MC	DE0704	L4	???				XC2408CT-ND	0.710	1	520-MPIL0630-150MC	0.500	1
33	1	OSY5LU3E34X-3F1A	THT; LED 3mm; yellow	LED1	-				-			-		
34	1	B57236S0200M	NTC11.5X6	NTC1	9751890	B57236S0200M	0.872	1	495-3047-ND	0.780	1	871-B57236S200M	0.757	1
35	1	MOC3052	SMD; SDIP-6	OK1	2453236	MOC3052SM	0.668	1	MOC3052SM-ND	1.030	1	512-MOC3052SM	0.774	1
36	1	MOC3062	SMD; SDIP-6	OK2	2322554	MOC3062SR2VM	0.900	1	MOC3062SM-ND	1.270	1	512-MOC3062SM	0.944	1
37	1	TLP291-GB.SE-T		OK3	2524307	TLP291(GB,SE	0.196	1	-			-		
38	2	BTA26-600	THT	Q1, Q2	1057286	BTA26-600BRG	3.000	1	497-2427-5-ND	3.370	1	511-BTA26-600B	3.360	1
39	3	2N7002	SOT-23	Q3, Q4, Q6	1713823	2N7002-7-F	0.118	5	2N7002LT1GOSCT-ND	0.150	1	863-2N7002LT1G	0.128	1
40	1	BSP716NH6327XTSA1	SOT-223	Q5	2803380	BSP716NH6327XTSA1	0.313	5	BSP716NH6327XTSA1CT-ND	0.410	1	726-BSP716NH6327XTSA	0.383	1
41	4	2K2	0805	R1, R3, R13, R19	9237534	RC0805FR-072K2L	0.037	10	311-2.20KCRCT-ND	0.039	10	603-RC0805FR-072K2L	0.026	10
42	4	10K	0805	R12, R15, R31, R33	9237755	RC0805FR-0710KL	0.022	10	311-10.0KCRCT-ND	0.039	10	603-RC0805FR-0710KL	0.014	10
43	1	470R	0805	R13	1099798	WCR0805-470RFI	0.019	10	311-470CRCT-ND	0.039	10	71-CRCW0805470RFKEB	0.041	10
44	2	4K7	0805	R16, R37	2861530	CRGCQ0805F4K7	0.009	10	311-4.70KCRCT-ND	0.090	1	603-RC0805FR-074K7L	0.026	10

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21	2	BAS316	397-2914	BAS316,115	0.122	50	BAS316,115	0.026	25		2	TME	0.026 €	2	0.053
22	1	AMC6821SDBQR	817-5783	AMC6821SDBQ	3.244	5	-				1	Mouser	2.750 €	1	2.750
23	1	VIPer35L	124-1146	VIPER35LDTR	1.544	5	-				1	Digikey	1.040 €	1	1.040
24	1	TL431	797-4835	TL431BMFDT,2 15	0.101	30	TL431CDBZR	0.118	5		1	RS	0.101 €	1	0.101
25	1	PF0030/PC	261-5834	PF0030/PC	3.700	1	PF0030/PC	2.360	1	1		TME	2.360 €	1	2.360
26	3	1-726388-2	680-5772	1-726388-2	0.095	100	1-726388-2	0.095	10	3		Farnell	0.090 €	3	0.270
27	1	SWEB 8094 AU/GN	-				SWEB 8094 AU/GN	2.130	1	1		TME	2.130 €	1	2.130
28	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
29	1	BLM21PG331SH1D	839-0821	BLM21PG331S H1D	0.033	50	BLM21PG331SN1D	0.048	50		1	RS	0.033 €	1	0.033
30	1	RLB0812-471KL	-				COIL0608-0.47	0.174	10	1		Digikey	0.136 €	1	0.136
31	1	DLG-0403-180	798-0938	SDR0403- 180ML	0.336		DLG-0403-180	0.129	10		1	TME	0.129 €	1	0.129
32	1	ECS-MPIL0630-150MC	???				HPI0630-150	0.406	2		1	TME	0.406 €	1	0.406
33	1	OSY5LU3E34X-3F1A	-				OSY5LU3E34X-3F1A	0.115	5		1	TME	0.115 €	1	0.115
34	1	B57236S0200M	-				B57236S0200	0.370	5		1	TME	0.370 €	1	0.370
35	1	MOC3052	761-3690	MOC3052SM	1.030	5	MOC3052S	0.288	2		1	TME	0.288 €	1	0.288
36	1	MOC3062	806-6064	MOC3062SM	0.786	10	MOC3062XSM	0.500	1		1	TME	0.500 €	1	0.500
37	1	TLP291-GB.SE-T	144-5264	TLP291(GB- TP,SE(T	0.116	50	TLP291-GB.SE-T	0.126	5		1	RS	0.116 €	1	0.116
38	2	BTA26-600	714-0515	BTA26-600BRG	3.710	1	BTA26-600BRG	1.290	1	2		TME	1.290 €	2	2.580
39	3	2N7002	545-0012	2N7002LT1G	0.126	50	2N7002LT1G	0.025	25		3	TME	0.025 €	3	0.074
40	1	BSP716NH6327XTSA1	-				BSP716NH6327XTSA 1	0.217	3		1	TME	0.217 €	1	0.217
41	4	2K2	679-1207	CRCW08052K2 0FKEA	0.039	50	SMD0805-2K2-1%	0.022	100		4	TME	0.022 €	4	0.089
42	4	10K	125-1189	CRG0805F10K	0.002	100	RC0805FR-0710K	0.022	100		4	RS	0.002 €	4	0.008
43	1	470R	223-0376	CRG0805F470R	0.021	50	RC0805FR-07470R	0.022	100		1	Farnell	0.019 €	2	0.038
44	2	4K7	223-0528	CRG0805F4K7	0.010	50	SMD0805-4K7-1%	0.022	100		2	Farnell	0.009 €	2	0.017

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45	2	220K	1206	R18, R19	2861964	CRGCQ1206J220 K	0.012	10	311-220KFRCT- ND	0.069	10	791- WR12X2203FTL	0.015	10
46	2	270R	0805	R2, R7	2073716	MCMR08X271 JTL	0.009	10	RMCF0805FT27 0RCT-ND	0.025	10	652-CR0805FX- 2700ELF	0.013	10
47	3	100K	1206	R20, R24, R26	2074546	MCSR12X104 JTL	0.012	10	311-100KFRCT- ND	0.065	10	279- CRGP1206F100 K	0.061	10
48	3	120R	0805	R21, R22, R27	2447561	MCWR08X1200FT L	0.009	10	RMCF0805FT12 0RCT-ND	0.020	10	71- CRCW0805120R FKEAC	0.037	10
49	2	1K	0805	R23, R28	1099800	WCR0805-1K0FI	0.019	10	RC0805FR- 071KL	0.039	10	603-RC0805FR- 071KL	0.015	10
50	1	22R	0805	R25	1099795	WCR0805-220RFI	0.019	10	RMCF0805FT22 R0CT-ND	0.020	10	RC0805FR- 07220RL	0.015	
51	1	4K87	0805	R30	1469925	CRCW08054K87F KEA	0.016	10	311-4.87KCRCT- ND	0.039	10	652-CR0805FX- 4871ELF	0.037	10
52	1	6K8	0805	R34	2447711	MCWR08X6801FT L	0.094	10	311-6.80KCRCT- ND	0.039	10	652-CR0805FX- 6801ELF	0.013	10
53	1	1K8	0805	R35	2447595	MCWR08X1801FT L	0.009	10	A129752CT-ND	0.028	10	652-CR0805JW- 182ELF	0.008	10
54	4	330R/2W	2512	R4, R6, R8, R9	1265196	3520330RJT	0.105	10	RMCF2512JT33 0RCT-ND	0.227	10	279-3520330RJT	0.073	10
55	5	47K	0805	R5, R10, R14, R32, R36	2447664	MCWR08X4702FT L	0.009	10	RHM47KKCT-ND	0.036	10	603-RC0805FR- 0747KL	0.014	10
56	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
57	1	DF62J12S2AHQA	THT; PCB AC switch	SW1	2435277	DF62J12S2AHQA	4.330	1	CKN2062-ND	4.340	1	611- DF62J12S2AHQ A	4.830	1
58	1	Feryster 0579	Flyback transformer	TR1	-				-			-		
59	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
60	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
61	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
62	1	ZL231-16KG	THT; 16-pin IDC socket; male; angled 90°	X3	1642024	61201621721	0.676	1	S9179-ND	0.620	1	710- 61201621721	0.680	1
63	1	22-23-2031	THT; 3-pin 0.1"	X4; fan connector	1462950	22-23-2031		1	22-23-2031			22-23-2031		
64	1	BZT52C20-DC	SOD-123	ZD3	2077898	BZT52C20-7-F	0.168	5	1727-8128-1-ND	0.180	1	621-BZT52C20- 13-F	0.170	1

Not installed														
1	N.C.	0805	C20											
0	N.C.	0805	R29	-										
3	Test points		TP1, TP2, TP3	-										
0	WE 760875532	WE-UOST	TR1B											

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Not installed										
1	N.C.					1	Farnell	0.000 €	1	0.000
0	N.C.					0	Farnell	0.000 €	0	0.000
3	Test points	TEST-5	0.082	10		3	TME	0.082 €	3	0.246
0	WE 760875532					0	Farnell	0.000 €	0	0.000

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0	22-23-2021	22-23-2021		X5										
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

Related parts and accessories														
1	FC16150-S	16-pin IDC cable 15cm		-					H3CCS-1606G-ND	1.170	1	-		
1	22-01-3037	3-pin receptacle for X4			1462838	22-01-3037	0.084	100	WM2001-ND	0.150	1	538-22-01-3037	0.162	1
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
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 210 x 60 mm	ALLPCB.com		-										

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.

#	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 €
0	22-23-2021									0		Farnell	0.000 €	0	0.000
2	1.5KE400CA		486-4381	1.5KE400CA	0.932	5	1.5KE400CA	0.316	3	2		TME	0.316 €	2	0.632
Related parts and acces:															
1	FC16150-S	-					FC16150-S	1.310	1			Digikey	1.170 €	1	1.170
1	22-01-3037		679-5375	22-01-3037	0.086	10	MX-22-01-3037	0.075	10			TME	0.075 €	1	0.075
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
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			TME	0.042 €	3	0.127
															2.37 €
Custom made componen															
1	PCB 2-layer 210 x 60 mm											ALLPCB	5.200 €	1	5.200
															5.20 €
															Total 36.30 €