

**EEZ DIB AUX-PS BOM (r1B1, 2018-09-06)**  
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	1	6n8 (X1)	C-EU102-054X133	C1										
3	3	3n3	C-EUC0805	C10, C11, C17										
4	1	470u	ECAP5G_10.5MM	C12										
5	2	4u7	C-EUC1206	C13, C19										
6	1	EEEFK1V470P	ECAPPANASONIC_H	C14	9695850	EEEFK1V470P	0,344	1	PCE3842CT-ND	0,312	10	667-EEE-FK1V470P	0,238	10
7	1	CY1Y-470P	C-EUCY	C15	2860164	VY1471K31Y5UQ6 TV0	0,220	1	BC2372-ND	0,206	10	72-VY1471M31Y5U Q63V0	0,186	10
8	1	1500u/16	ECAP5G_13MM	C18										
9	1	47n/400V	C-EU102-054X133	C2										
10	1	TBA	0805	C20										
11	1	33n	0805	C21	1414688	C0805C333K5RAC TU	0,051	10	1276-1796-1-ND	0,068	10	77-VJ0805Y333JXA PBC	0,020	50
12	1	18p	0805	C22										
13	1	10n	0805	C23	2522596	C0603C103K5RAC 7081	0,042	10	399-1092-1-ND	0,040	10	80-C0603C103M5R 3121	0,031	10
14	1	2n2	0805	C24	2896572	VJ0805Y222KXAC W1BC	0,028	10	720-1604-1-ND	0,063	10	77-VJ0805Y222KXB AC	0,032	50
15	2	10u	1206	C3, C5	2494299	GRM32DR71C106 KA01L	0,508	1	1276-1150-1-ND	0,246	10	963-EMK325B7106M NHTR	0,213	10
16	3	100n	0603	C4, C6, C16	2522597	C0603C104K4RAC 7081	0,011	10	490-4774-1-ND	0,029	100	80-C0603C104M4R	0,007	100
17	1	1n/1kV	1210	C7	2812601	885342209006	0,580	5	732-12116-1-ND	0,380	1	710-885342209006	0,357	1
18	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
19	1	SKL16	SOD-123	D1	1510688	PMEG4005EH		5	1727-3876-1-ND		1	771-PMEG4005EH-T/R		1
20	2	SS110	SMB	D2, D4	1861422	SS110B	0,097	5	SS110-TPCT-ND	0,350	1	833-SS110FL-TP	0,323	1
21	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
22	1	SK55	SMB	D5	1299291	SK54C	0,624	5	SK55L-TPMSCT-ND	0,440	1	833-SK55L-TP	0,434	1
23	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
24	1	AMC6821SDBQR		IC1	-				296-41200-1-ND	3,900	1	595-AMC6821SDBQR	2,750	1

#	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	1	6n8 (X1)								1		Farnell	0,000 €	1	0,000
3	3	3n3									3	Farnell	0,000 €	3	0,000
4	1	470u								1		Farnell	0,000 €	1	0,000
5	2	4u7									2	Farnell	0,000 €	2	0,000
6	1	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5		1	TME	0,130 €	1	0,130
7	1	CY1Y-470P	736-8858	VY1471K31Y5U Q6TV0	0,100	10	CY1Y-470P	0,099	10	1		TME	0,099 €	1	0,099
8	1	1500u/16								1		Farnell	0,000 €	1	0,000
9	1	47n/400V									1	Farnell	0,000 €	1	0,000
10	1	TBA									1	Farnell	0,000 €	1	0,000
11	1	33n	652-0982	VJ0805Y333KX AAT	0,066	25	CL21B333KBANNNC	0,035	100		1	Mouser	0,020 €	1	0,020
12	1	18p									1	Farnell	0,000 €	1	0,000
13	1	10n	264-4595	C0603C103K5R ACTU	0,035	25	C0603X103K5RACTU	0,080	100		1	Mouser	0,031 €	2	0,062
14	1	2n2	264-4359	C0805C222K5R ACTU	0,031	25	VJ0805Y222KXACW1 BC	0,020	100		1	TME	0,020 €	1	0,020
15	2	10u	103-4184	EMK325B7106K N-T	0,188	20	CL32B106KBJNNNE	0,201	10		2	RS	0,188 €	2	0,376
16	3	100n	393-6952	VJ0603Y104KXJ AT	0,069	25	CL10B104KA8NNNC	0,098	100		3	Mouser	0,007 €	3	0,021
17	1	1n/1kV	500-2499	C1210C102JDG ACTU	0,880	5	1210B102K102CT	0,343	10		1	TME	0,343 €	1	0,343
18	2	UCY2G6R8MPD	739-4551	UCA2G6R8MPD	1,008	1	UCY2G6R8MPD	0,240	5	2		TME	0,240 €	2	0,480
19	1	SKL16	485-571	PMEG4005EH		20	SKL16		5		1	Farnell	0,000 €	1	0,000
20	2	SS110	743-5992	SS110 R3	0,154	25	SS110-JGD	0,053	5		2	TME	0,053 €	3	0,159
21	1	US1K-DIO	751-5130	US1K-13-F	0,106	25	US1K-DIO	0,067	10		1	TME	0,067 €	1	0,067
22	1	SK55	652-6255	SK54C R6	0,472	25	SK55-DIO	0,116	5		1	TME	0,116 €	1	0,116
23	2	BAS316	397-2914	BAS316,115	0,122	50	BAS316,115	0,026	25		2	TME	0,026 €	2	0,053
24	1	AMC6821SDBQR	817-5783	AMC6821SDBQ	3,244	5	-				1	Mouser	2,750 €	1	2,750

#	Qty	Part name	Package	Reference designator	Code	Farnell / Element14			Digi-Key			Mouser		
						Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
25	1	VIPer35L		IC2	2612169	VIPER35LD	1,130	1	497-16075-5-ND	1,040	1	511-VIPER35LD	1,040	1
26	1	TL431		IC3										
27	1	PF0030/PC		J1	428784	PF0030/PC	3,700	1	708-1914-ND	5,730	1	161-PF0030/PC	6,050	1
28	1	SWEB 8094 AU/GN	BINDING_POSTCLIFF	J2	-				-			-		
29	1	HS-142-25	SK129-PAD	KK1	1319810	SK 129 25,4 STS	2,460	1	-			-		
30	1	BLM21PG331SH1	0805	L1										
31	1	RLB0812-471KL	SMD; 470 uH	L2	???				RLB0812-471KL-ND	0,136	1	652-RLB0812-471KL	0,238	1
32	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
33	1	ECS-MPIL0630-150MC	DE0704	L4	???				XC2408CT-ND	0,710	1	520-MPIL0630-150MC	0,500	1
34	1	OSY5LU3E34X-3F1A	LEDOSG8	LED1										
35	1	LTST-C170YKT	LED0805	LED2										
36	1	B57236S0200M	NTC11.5X6	NTC1	9751890	B57236S0200M	0,872	1	495-3047-ND	0,780	1	871-B57236S200M	0,757	1
37	1	MOC3052	SMD; SDIP-6	OK1	2453236	MOC3052SM		1	MOC3052SM			MOC3052SM		
38	1	MOC3062	SMD; SDIP-6	OK2	2322554	MOC3062SR2VM		1	MOC3062SM			MOC3062SM		
39	1	TLP291-GB.SE-T		OK3	2524307	TLP291(GB,SE	0,196	1	-			-		
40	2	BTA26-600	THT	Q1, Q2	1057286	BTA26-600BRG		1	BTA26-600BRG			BTA26-600BRG		
41	3	2N7002	SOT-23	Q3, Q4, Q6	1713823	2N7002-7-F		5	2N7002LT1G			2N7002LT1G		
42	1	IRLL2705PBF	SOT-232	Q5	8651230	IRLL2705PBF		1	IRLL2705PBF-ND		1	942-IRLL2705PBF		1
43	3	2K2	0805	R1, R4, R11	9237534	RC0805FR-072K2L		10	RC0805FR-072K2L			RC0805FR-072K2L		
44	2	10K	0805	R12, R15	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
45	2	470R	0805	R13, R24	1099798	WCR0805-470RFI	0,019	10	311-470CRCT-ND	0,039	10	71-CRCW0805470R FKEB	0,041	10
46	4	47K	0805	R14, R29, R30, R33	2447664	MCWR08X4702FT L	0,009	10	RHM47KKCT-ND	0,036	10	603-RC0805FR-0747KL	0,014	10
47	2	4K7	0805	R16, R34	9333266	MC01W080514K7		10	RC0805FR-074K7L			RC0805FR-074K7L		
48	2	220K	1206	R17, R18	2861964	CRGCQ1206J220K	0,012	10	311-220KFRCT-ND	0,069	10	791-WR12X2203FTL	0,015	10
49	3	120R	0805	R19, R21, R23	2447561	MCWR08X1200FT L	0,009	10	RMCF0805FT12 ORCT-ND	0,020	10	71-CRCW0805120R FKEAC	0,037	10
50	2	49R9	0805	R2, R6	2141727	MC01W0805149R9		10	RC0805FR-0749R9L			RC0805FR-0749R9L		
51	1	100K	0805	R20	2447551	MCWR08X1003FT L	0,009	10	311-100KCRCT-ND	0,039	10	603-RC0805FR-10100KL	0,017	10
52	1	22R	0805	R22	1099795	WCR0805-220RFI	0,019	10	RMCF0805FT22 R0CT-ND	0,020	10	RC0805FR-07220RL	0,015	

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 €
25	1	VIPer35L	124-1146	VIPER35LDTR	1,544	5	-				1	Digikey	1,040 €	1	1,040
26	1	TL431									1	Farnell	0,000 €	1	0,000
27	1	PF0030/PC	261-5834	PF0030/PC	3,700	1	PF0030/PC	2,360	1	1		TME	2,360 €	1	2,360
28	1	SWEB 8094 AU/GN	-				SWEB 8094 AU/GN	2,130	1	1		TME	2,130 €	1	2,130
29	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
30	1	BLM21PG331SH1									1	Farnell	0,000 €	1	0,000
31	1	RLB0812-471KL	???				COIL0608-0.47	0,174	10	1		Digikey	0,136 €	1	0,136
32	1	DLG-0403-180	798-0938	SDR0403-180ML	0,336		DLG-0403-180	0,129	10		1	TME	0,129 €	1	0,129
33	1	ECS-MPIL0630-150MC	???				HPI0630-150	0,406	2		1	TME	0,406 €	1	0,406
34	1	OSY5LU3E34X-3F1A									1	Farnell	0,000 €	1	0,000
35	1	LTST-C170YKT									1	Farnell	0,000 €	1	0,000
36	1	B57236S0200M	-				B57236S0200	0,370	5		1	TME	0,370 €	1	0,370
37	1	MOC3052	761-3690	MOC3052SM		5	MOC3052SR2VM		2		1	Farnell	0,000 €	1	0,000
38	1	MOC3062	806-6064	MOC3062SM		10	MOC3062XSM		1		1	Farnell	0,000 €	1	0,000
39	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
40	2	BTA26-600	714-0515			1	BTA26-600BRG		1	2		Farnell	0,000 €	2	0,000
41	3	2N7002	545-0012	2N7002LT1G		50	2N7002LT1G		25		3	Farnell	0,000 €	3	0,000
42	1	IRLL2705PBF	540-9907	IRLL2705PBF		1	IRLL2705PBF		1		1	Farnell	0,000 €	1	0,000
43	3	2K2	679-1207	CRCW08052K20FKEA		50	SMD0805-2K2-1%		100		3	Farnell	0,000 €	3	0,000
44	2	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		2	RS	0,002 €	2	0,004
45	2	470R	223-0376	CRG0805F470R	0,021	50	RC0805FR-07470R	0,022	100		2	Farnell	0,019 €	2	0,038
46	4	47K	679-1434	CRCW080547K0FKEA	0,036	50	RC0805FR-0747K	0,022	100		4	Farnell	0,009 €	4	0,038
47	2	4K7	223-0528	CRG0805F4K7		50	RC0805FR-074K7		100		2	Farnell	0,000 €	2	0,000
48	2	220K	223-2574	CRG1206F220K	0,004	50	CRCW1206220KFKTA BC	0,031	100		2	RS	0,004 €	2	0,008
49	3	120R	223-0304	CRG0805F120R	0,035	50	SMD0805-120R-1%	0,022	100						
50	2	49R9	679-1462	CRCW080549R9FKEA		50	RC0805FR-0749R9		100						
51	1	100K	223-0691	CRG0805F100K	0,007	50	SMD0805-100K-1%	0,022	100						
52	1	22R	223-0332	CRG0805F220R	0,024	50	RC0805FR-07220R	0,007	100		1	TME	0,007 €	1	0,007

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						Part Number	Unit price €	MOQ		Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
53	2	TBA	0805	R25, R28											
54	1	24K	0805	R27											
55	2	220R	0805	R3, R7	1099795	WCR0805-220RFI	0,019	10		RMCF0805FT22-ORCT-ND	0,020	10	603-RC0805FR-13220RL	0,020	10
56	1	12K	0805	R31											
57	1	1K8	0805	R32	2447595	MCWR08X1801FT-L	0,009	10		A129752CT-ND	0,028	10	652-CR0805JW-182ELF	0,008	10
58	4	330R/2W	2512	R5, R8, R9, R10	1265196	3520330RJT		10		RHC2512FT330R			3521330RFT		
59	1	CG2-470L	SAR	SAR1	1846854	2027-47-BLF		1		2027-47-BLF			2027-47-BLF		
60	1	DF62J12S2AHQA	DF62J12S2AHQA	SW1	2435277	DF62J12S2AHQA	4,330	1		CKN2062-ND	4,340	1	611-DF62J12S2AHQA	4,830	1
61	1	Feryster 0579	Flyback transformer	TR1	-					-			-		
62	2	ERZE14A431	VARISTOR	VAR1, VAR2	2291831	ERZE11A431		1		P16688-ND		1	667-ERZ-E11A431		1
63	1	39-28-1063	MINIFIT_5566-06A-CRE	X1	9732101	39-28-1063	0,688	1		WM3802-ND	0,860	1	538-39-28-1063	0,760	1
64	1	39-30-1039	MINIFIT_39301039-CREEPAGE	X2	1829076	39-30-1039	0,585	1		WM18442-ND	0,570	1	538-39-30-1039	0,430	1
65	1	ZL231-16KG	IDC-16PIN-F-ANGLED	X3	???					???			???		
66	1	22-23-2031	THT	X4; fan connector	1462950	22-23-2031		1		22-23-2031			22-23-2031		
67	2	1.5KE400CA	1.5KE-BIDIR	ZD1, ZD2	2341650	1.5KE400CARL		1		1.5KE400CA-TP			1.5KE400CA-TP		
68	1	BZT52C20-DC	ZENER-DIODESOD123	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	R26												
1	Test points		TP1												
1	WE 760875532	WE-UOST	TR1B												
1	22-23-2021	22-23-2021	X5												

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 if not otherwise specified.

#	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 €
53	2	TBA									2	Farnell	0,000 €	2	0,000
54	1	24K									1	Farnell	0,000 €	1	0,000
55	2	220R	223-0332	CRG0805F220R	0,018	50	SMD0805-220R-1%	0,022	100		2	RS	0,018 €	2	0,036
56	1	12K									1	Farnell	0,000 €	1	0,000
57	1	1K8	223-0461	CRG0805F1K8	0,022	50	SMD0805-1K8-1%	0,022	100		1	Mouser	0,008 €	1	0,008
58	4	330R/2W	755-1224	3521330RFT		10	WF25P-330R-5%		50		4	Farnell	0,000 €	4	0,000
59	1	CG2-470L	878-3652	CG2-470L		10	CG2-470L		1	1		Farnell	0,000 €	1	0,000
60	1	DF62J12S2AHQA	154-3601	DF62J12S2AHQA	4,690	1	DF62J12S2AHQA	3,336	1	1		TME	3,336 €	1	3,336
61	1	Feryster 0579	-				TI-ER28-0579	4,560	1	1		TME	4,560 €	1	4,560
62	2	ERZE14A431	785-8904	ERZE11A431		25	-			2		Farnell	0,000 €	2	0,000
63	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
64	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
65	1	ZL231-16KG	???				ZL231-16KG	0,136	5	1		TME	0,136 €	1	0,136
66	1	22-23-2031	679-5587	22-23-2031		10	MX-22-23-2031		10	1		Farnell	0,000 €	1	0,000
67	2	1.5KE400CA	486-4381	1.5KE400CA		5	1.5KE400CA		3	2		Farnell	0,000 €	2	0,000
68	1	BZT52C20-DC	822-2214	BZT52C20S-7-F	0,093	100	BZT52C20-DC	0,053	10		1	TME	0,053 €	1	0,053
										23	70	21,77 €			

Not installed															
1	N.C.										1	Farnell	0,000 €	1	0,000
1	Test points						TEST-5	0,082	10	7		TME	0,082		0,000
1	WE 760875532														
1	22-23-2021									1		Farnell	0,000 €	1	0,000

Custom made componer															
1	PCB 2-layer 210 x 60 mm											ALLPCB	5,200 €	1	5,200
															5,20 €

**Total 26,97 €**