#	Qty	Part name	Package	Reference designator	Farnell / Element14 Code	Part Number	Unit price €	MOQ	Digi-Key Part Number	Unit price €	MOQ	Mouser Part Number	Unit price €	MOQ
1	19	100n	0603	C1, C2, C4, C5, C6, C7, C9, C10, C14, C16, C21, C22, C26, C27, C28, C29, C32, C33, C34	2522597	C0603C104K4RAC7081	0,073	10	490-4774-1-ND	0,090	100	80-C0603C104M4R	0,085	100
2	8	1u	0805	C11, C13, C15, C23, C24, C25, C30, C31	2495193	885012207078	0,139	5	1276-1066-1-ND	0,070	10	963-TMK212B7105KG-T	0,050	10
3	1	22u	1206	C17	2320935	MC1210X226K250CT	1,490	1	1276-3373-1-ND	0,369	10	603-CC121KKX7R8BB226	0,777	10
4	2	1n	0603	C2, C10	2627426	MC0603B102K250CT	0,009	10	1276-1018-1-ND	0,026	10	80-C0603C102J5RAC	0,021	10
5	4	10u	1206	C3, C8, C18, C35	3013485	CL21B106KOQNNNE	0,262	10	1276-2872-1-ND	0,207	10	810-CGA4J1X7S1C106KA	0,144	1
6	4	BAV199,235	SOT-23	D1, D4, D13, D20	2319137	BAV199,215	0,185	5	1727-6382-1-ND	0,145	10	771-BAV199235	0,146	10
7	16	SA2M-E3/61T	SMA	D2, D3, D5, D6, D7, D8, D9, D10, D11, D12, D14, D15, D16, D17, D18, D19	2335163	SA2M-E3/61T	0,261	10	CSA2M-E3/IGICT-ND	0,223	10	78-CSA2M-E3/H	0,202	10
8	1	SN005-60	1206	F1, F2	3103210	1206L005/60WR	0,771	1	F8129CT-ND	0,460	1	576-1206L005/60WR	0,440	1
9	4	ZH32	**THT**; 20x5mm fuse holder	F3, F4, F5, F6	-				-			-		
10	2	MCP6004T-I/ST	TSSOP-14	IC1, IC4	-				-			579-MCP6004T-I/ST	0,373	1
11	1	ADS131E04IPAGR	TQFP-64	IC11	3123346	ADS131E04IPAG	13,450	1	296-34885-1-ND	7,560	1	595-ADS131E04IPAGR	8,430	1
12	1	TPS71725DCKR	SC70-5	IC12	2348004	TPS71725DCKR .	0,982	1	296-21525-1-ND	0,890	1	595-TPS71725DCKR	0,889	1
13	1	TPS72325DBVR	SOT-23-5	IC13	3007843	TPS72325DBVR	2,690	1	296-39479-1-ND	2,300	1	595-TPS72325DBVR	2,310	1
14	4	DG212BDY-T1-E3	SOIC-16	IC2, IC5, IC7, IC9	1469429	DG212BDY-T1-E3	1,820	1	DG212BDY-T1-E3CT-ND	1,550	1	781-DG212BDY-T1-E3	1,470	1
15	1	ULN2803ADWR	SOIC-18	IC3	3125103	ULN2803ADWR	1,120	5	296-15777-1-ND	1,090	1	595-ULN2803ADWR	1,090	1
16	2	MCP6001T-I/OT or TLV9001IDBVR	SOT-23-5	IC6, IC8	4974992	MCP6001T-I/OT	0,219	1	MCP6001T-I/OTCT-ND	0,200	1	579-MCP6001T-E/OT	0,203	1
17	2	RT424F05	**THT**; DPDT Latching relay	ISEL10A_1, ISEL10A_2	3406968	RT424F05	6,450	1	PB2024-ND	6,370	1	655-5-1393243-2	6,380	1
18	2	EE2-5TNU-L	DPDT Latching relay, Gull Wing Lead	ISEL1A_1, ISEL1A_2	2360813	EE2-5TNU-L	1,900	1	399-11021-1-ND	2,110	1	80-EE2-5TNU-L	2,120	1
19	4	DS1025-01-1*2P8BV1-B	**THT**; 2- pin header, 2 mm	JP1, JP2, JP3, JP4	-				-			-		
20	2	MLZ1608N100LT000	0603	L1, L2	2564062	MLZ1608N100LT000	0,167	10	445-6755-1-ND	0,111	10	810-MLZ1608N100LT000	0,086	10
21	2	BLM18AG102SH1D	0603	L3, L4	3471092	BLM18AG102SH1D	0,032	10	490-7809-1-ND	0,070	10	81-BLM18AG102SH1D	0,051	10
22	4	VOR1142B4	SMD DIP-4	OK1, OK2, OK3, OK4	2889672	VOR1142B4	1,660	1	VOR1142B4-ND	1,420	1	78-VOR1142B4	1,420	1

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

#	Qty	RS Components Part name	Code	Part Number	Unit price €	MOQ	TME Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
1	19	100n	264-4630	C0603C104K4RACTU	0,035	25	CL10B104KA8NNNC	0,098	100		19	RS	0,035 €	19	0,665
2	8	1u	378-665	08052R104K8BB	0,038	25	VJ0805Y105KXXTW1BC	0,014	100		8	TME	0,014 €	8	0,116
3	1	22u	766-1182	CL32A226KAJNNNE	0,343	10	CL32A226KAJNNNE	0,158	10		1	TME	0,158 €	1	0,158
4	2	1n	135-6565	06031C102KAZ2A	0,014	100	VJ0603Y102KXACW1BC	0,010	100		2	Farnell	0,009 €	2	0,018
5	4	10u	184-3969	EMK212BB7106MG-T	0,233	50	CL21A106KOQNNNG	0,034	100		4	TME	0,034 €	4	0,137
6	4	BAV199,235	751-3437	BAV199DW-7-F	0,232	25	BAV199.215	0,035	20		4	TME	0,035 €	4	0,140
7	16	SA2M-E3/61T	812-9275	SA2M-E3/5AT	0,116	100	SA2M-E3/61T	0,050	50		16	TME	0,050 €	16	0,794
8	1	SN005-60	-				SN005-60	0,075	10		1	TME	0,075 €	1	0,075
9	4	ZH32	-				ZH32	0,228	5	4		TME	0,228 €	4	0,912
10	2	MCP6004T-I/ST	-				-				2	Mouser	0,373 €	2	0,746
11	1	ADS131E04IPAGR	817-5705	ADS131E04IPAG	6,050	1	-				1	RS	6,050 €	1	6,050
12	1	TPS71725DCKR	-				-				1	Mouser	0,889 €	1	0,889
13	1	TPS72325DBVR	-				-				1	Digikey	2,300 €	1	2,300
14	4	DG212BDY-T1-E3	710-4780	DG212BDY-T1-E3	1,630	5	-				4	Mouser	1,470 €	4	5,880
15	1	ULN2803ADWR	646-6311	ULN2803ADW	1,336	1	ULN2803ADWR	0,866	1		1	TME	0,866 €	1	0,866
16	2	MCP6001T-I/OT or TLV9001IDBVR	698-9041	MCP6001T-I/OT	0,230	1	MCP6001T-I/OT	0,254	3		2	Digikey	0,203 €	2	0,406
17	2	RT424F05	164-7553	RT424F05	6,485	1	5-1393243-2	2,500	2	2		TME	2,500 €	2	5,000
18	2	EE2-5TNU-L	870-5517	EE2-5TNU-L	1,987	1	-				2	Farnell	1,900 €	2	3,800
19	4	DS1025-01-1*2P8BV1-B	-				ZL303-02P	0,013	50	4		TME	0,013 €	4	0,051
20	2	MLZ1608N100LT000	-				-				2	Mouser	0,086 €	2	0,172
21	2	BLM18AG102SH1D	839-0803	BLM18AG102SH1D	0,025	100	BLM18AG102SH1D	0,016	50		2	TME	0,016 €	2	0,031
22	4	VOR1142B4	180-7266	VOR1142B4	1,416	5	-				4	RS	1,416 €	4	5,664

#	Qty	Part name	Package	Reference designator	Farnell / Element14 Code	Part Number	Unit price €	MOQ	Digi-Key Part Number	Unit price €	MOQ	Mouser Part Number	Unit price €	MOQ
23	4	CPC3902ZTR	SOT-223	Q1, Q2, Q3, Q4	-				CLA4156-1-ND	0,570	1	849-CPC3902ZTR	0,576	1
24	4	BSS214NH6327XTSA1	SOT-23	Q5, Q6, Q7, Q8	2480650	BSS214NH6327XTSA1	0,408	5	BSS214NH6327XTSA1CT-ND	0,255	10	726-BSS214NH6327	0,224	10
25	4	10R	0805	R1, R18, R53, R54	2447556	MCWR08X10R0FTL	0,009	10	2019-RK73H2ATTD10R0FCT-ND	0,029	10	652-CR0805FX-10R0ELF	0,012	10
26	6	100K	1206	R11, R24, R32, R37, R42, R47	2447551	MCWR08X1003FTL	0,010	10	RMCF0805FT100KCT-ND	0,024	10	71-CRCW0805100KFKEAC	0,040	10
27	4	4M7 0.1%	1206	R12, R13, R25, R26	-				408-2037-1-ND	0,413	10	754-RG3216P-4704B-T1	0,356	10
28	6	100K 0.1%	1206	R14, R17, R27, R30, R40, R50	1717738	ERA8AEB101V	0,482	10	RG32P100KBCT-ND	0,346	10	754-RG3216P-1003-BT5	0,226	10
29	8	200K 0.1%	1206	R15, R16, R28, R29, R38, R39, R48, R49	1841801	ERA8AEB204V	0,468	10	RG32P200KBCT-ND	0,355	10	754-RG3216P-2003-BT5	0,226	10
30	2	330R	0805	R2, R10	2447638	MCWR08X3300FTL	0,007	10	A106061CT-ND	0,038	10	279-CRGCQ0805F330R	0,036	10
31	4	470R	0805	R3, R6, R19, R21	1099798	WCR0805-470RFI	0,019	10	311-470CRCT-ND	0,039	10	71-CRCW0805470RFKEB	0,041	10
32	2	20R	1206, low TCR (max. ±25ppm/°C)	R31, R41	-				311-2930-1-ND	0,202	10	652-CRT1206BY20R0ELF	0,257	10
33	2	GMR100HTBFIR022	2512, low TCR (max. ±25ppm/°C)	R33, R43	-				511-1688-1-ND	1,090	10	755-GMR100HTBFIR022	1,250	1
34	2	1K	0805	R35, R45	1099800	WCR0805-1K0FI	0,019	10	RC0805FR-071KL	0,039	10	603-RC0805FR-071KL	0,015	10
35	2	GMR100HTBFA10L0	2512, low TCR (max. ±25ppm/°C)	R36, R46	2808330	GMR100HTBFA10L0	1,130	5	511-1686-1-ND	1,350	1	755-GMR100HTBFA10L0	1,080	1
36	2	33R 0.1%	1206, low TCR (max. ±25ppm/°C)	R4, R20	-				13-RT1206BRD0733RLCT-ND	0,394	10	603-RT1206BRD0733RL	0,266	10
37	6	10K	0805	R5, R7, R34, R44, R51, R52	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
38	4	49K9	1206	R8, R9, R22, R23	2908458	CR1206-FX-4992ELF	0,040	10	RNCP1206FTD49K9CT-ND	0,068	10	791-MR12X4992FTL	0,013	10
39	2	PESD12VL1BA,115	SOD-323	TVS1, TVS2	8737363	PESD12VL1BA,115	0,365	5	1727-3808-1-ND	0,320	10	771-PESD12VL1BA-T/R	0,296	10
40	1	691322310008	**THT**, 8-pin 3.81mm terminal block header, male pins	X1	-				732-2093-ND	1,390	1	710-691322310008	1,400	1
41	2	P125-2214A0BS230A1	**THT**; 28-pin 0.1" board-to-board (Producer: *DONG GUAN YLIES PRECISE CONNECTOR CO.,LTD*)	X2, X3	-				-			-		

#	Qty	Part name	RS Components Code	RS Components Part Number	RS Components Unit price €	RS Components MOQ	TME Code / Part Number	TME Unit price €	TME MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
23	4	CPC3902ZTR	-				CPC3902ZTR	0,310	5		4	TME	0,310 €	4	1,240
24	4	BSS214NH6327XTSA1	827-0058	BSS214NH6327 XTSA1	0,107	100	BSS214NH6327XTSA1	0,070	10		4	TME	0,070 €	4	0,280
25	4	10R	740-8987	CR0805-FX-10R0ELF	0,065	50	0805S8J0111T5E	0,013	100		4	Farnell	0,009 €	4	0,034
26	6	100K	223-0691	CRG0805F100K	0,028	50	0805S8F1003T5E	0,015	100		6	Farnell	0,010 €	6	0,058
27	4	4M7 0.1%	-				-				4	Mouser	0,356 €	4	1,424
28	6	100K 0.1%	669-6626	ERA8AEB104V	0,608	5	AR06BTCV1003	0,127	10		6	TME	0,127 €	6	0,759
29	8	200K 0.1%	828-0715	ERA8AEB204V	0,608	5	AR06BTCV2003	0,127	10		8	TME	0,127 €	8	1,013
30	2	330R	223-0354	CRG0805F330R	0,040	50	0805S8F3300T5E	0,014	100		2	Farnell	0,007 €	2	0,014
31	4	470R	223-0376	CRG0805F470R	0,021	50	RC0805FR-07470R	0,022	100		4	Farnell	0,019 €	4	0,076
32	2	20R	-				-				2	Digikey	0,202 €	2	0,404
33	2	GMR100HTBFIR022	-				-				2	Digikey	1,090 €	2	2,180
34	2	1K	223-0427	CRG0805F1K0	0,017	50	RC0805FR-071K	0,022	100		2	Mouser	0,015 €	2	0,030
35	2	GMR100HTBFA10L0	-				-				2	Mouser	1,080 €	2	2,160
36	2	33R 0.1%	-				ARG06DTC0330	0,029	10		2	TME	0,029 €	2	0,058
37	6	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		6	RS	0,002 €	6	0,012
38	4	49K9	679-2174	CRCW120649K9FKEA	0,039	50	RC1206FR-0749K9	0,029	100		4	Mouser	0,013 €	4	0,052
39	2	PESD12VL1BA,115	508-024	PESD12VL1BA,115	0,294	20	PESD12VL1BA.115	0,126	5		2	TME	0,126 €	2	0,252
40	1	691322310008	824-6661	691322310008	1,470	1	15EDGRC3.81-08P	0,662	1	1		TME	0,662 €	1	0,662
41	2	P125-2214A0BS230A1	-				-			2					-

#	Qty	Part name	Package	Reference designator	Farnell / Element14				Digi-Key			Mouser		
					Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
42	1	MMSZ5230BT1G	SOD-123	ZD1	1431272	MMSZ5230BT1G	0,177	10	MMSZ5230BT1G OSCT-ND	0,148	10	863-MMSZ5230BT1G	0,170	10

	Not installed													
1	N.C.	1206	C12											
4	N.C.	1206	C19											
1	N.C.	THT	C20											
1	N.C.		IC10											
5	N.C.	R-EU_R0805	R4, R9, R40, R41, R42											
1	N.C.		S1											
1	N.C.		XO1											

	Related parts and accessories													
2	ZKSS-10A													
2	ZKSS-1.25A													
4	JUMPER-2.0/R		JP1, JP2, JP3, JP4	-					-			-		
1	691304100008	8-pin 3.81mm push-in connector		-					277-12329-ND	7,410	1	651-1748037	7,440	1

	Custom made components													
1	PCB 4-layer 141.5 x 68.5 mm	JLCPCB.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. 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.

For small quantities, consider ordering specialized chips at store.ti.com for better prices and availability.

EEZ DIB AFE1 BOM (r1B5, 2021-05-14)
Project source code at https://github.com/eez-open/modular-psu

#	Qty	RS Components Part name	Code	Part Number	Unit price €	MOQ	TME Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
42	1	MMSZ5230BT1G	545-3033	MMSZ5230BT1G	0,173	20	MMSZ5230BT1G	0,033	25		1	TME	0,033 €	1	0,033
										13	108				**45,61 €**

	Not installed														
	1	N.C.													
	4	N.C.													
	1	N.C.													
	1	N.C.													
	5	N.C.													
	1	N.C.													
	1	N.C.													

	Related parts and access														
	2	ZKSS-10A					ZKSS-10A	0,459	10			TME	0,459 €	2	0,918
	2	ZKSS-1.25A					ZKSS-1.25A	0,312	10			TME	0,312 €	2	0,624
	4	JUMPER-2.0/R	-				JUMPER-2.0/R	0,044	20			TME	0,044 €	4	0,175
	1	691304100008	185-4361	691304100008	8,900	1						Digikey	7,410 €	1	7,410
															9,13 €

	Custom made componen														
	1	PCB 4-layer 141.5 x 68.5 mm										JLCPCB	8,796 €	1	8,796
															8,80 €

| | | | | | | | | | | | | | | **Total** | **63,53 €** |