					Farnell / Element14 Digi-Key				Mouser			
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price MOC	Part Number	Unit price € MO	Part Number	Unit price €	MOQ
1	2	1u	0603, 16V	C1, C9	3013421	CL10B105MO8NN WC	0,026 10	1276-1019-1-ND	0,039 10	80- C0603C105K4R	0,036	10
2	1	8n2	0603	C17	1759101	MC0603B822K500 CT	0,038 10	311-1811-1-ND	0,060 10	603- CC603KRX7R9B B822	0,032	10
3	2	1n	0603	C2, C10	2627426	MC0603B102K250 CT	0,009 10	1276-1018-1-ND	0,026 10	80- C0603C102J5RA C	0,021	10
4	3	10u	1206	C20, C34, C64	3013485	CL21B106KOQNN NE	0,262 10	1276-2872-1-ND	0,207 10	810- CGA4J1X7S1C1 06KA	0,144	1
5	8	1u	0805	C23, C25, C27, C48, C49, C54, C59, C60	2495193	885012207078	0,139 5	1276-1066-1-ND	0,070 10	963- TMK212B7105K G-T	0,050	10
6	19	100n	0603	C3, C4, C11, C12, C18, C19, C21, C22, C26, C28, C46, C47, C55, C56, C57, C58, C61, C62, C63	2522597	C0603C104K4RAC 7081	0,073 10	490-4774-1-ND	0,090 10	80- C0603C104M4R	0,085	100
7	1	22u	1206	C33	2320935	MC1210X226K250 CT	1,490 1	1276-3373-1-ND	0,369 10	603- CC121KKX7R8B B226	0,777	10
8	4	1n	1206, 50V	C5, C8, C13, C16	2773295	C1206C102M5RA CTU	0,059 10	732-8115-1-ND	0,071 10	710- 885012208075	0,073	10
9	2	1u	1206, 50V	C6, C14	3013524	CL31B105KBHNN NE	0,144 5	1276-3091-1-ND	0,092 10	CL31B105KBHN FNE	0,051	10
10	2	100n	1206, 50V	C7, C15	1414715	C1206C104K5RAC TU	0,053 10	399- C1206C104K5R AC7800CT-ND	0,066 10	80- C1206C104K5R ACLR	0,045	10
11	2	BAV199,235		D1, D10	2319137	BAV199,215	0,185 5	1727-6382-1-ND	0,145 10	771-BAV199235	0,146	10
12	8	SA2M-E3/61T	SMA	D2, D3, D4, D5, D6, D7, D8, D9	2335163	SA2M-E3/61T	0,261 10	CSA2M-E3/ IGICT-ND	0,223 10	78-CSA2M-E3/H	0,202	10
13	4	ZH32	THT; 20x5mm fuse holder	F1, F2, F4, F5	-			-		-		
14	1	SN005-60	1206	F3	3103210	1206L005/60WR	0,771 1	F8129CT-ND	0,460 1	576- 1206L005/60WR	0,440	1
15	1	AMC3330QDWERQ1	SOIC-16 Wide	IC1	-			296- AMC3330DWER CT-ND	8,980 1	595- AMC3330DWE	9,750	1
16	1	ADS131E04IPAGR	TQFP-64	IC11	3123346	ADS131E04IPAG	13,450 1	296-34885-1-ND	7,560 1	595- ADS131E04IPAG R	8,430	1
17		TPS71725DCKR	SC70-5	IC12	2348004	TPS71725DCKR.	0,982 1	296-21525-1-ND	0,890 1	595- TPS71725DCKR	-,	
18	1	TPS72325DBVR	SOT-23-5	IC13	3007843	TPS72325DBVR	2,690 1	296-39479-1-ND	2,300 1	595- TPS72325DBVR	2,310	1
19	1	ULN2803ADWR	SOIC-18	IC2	3125103	ULN2803ADWR	1,120 5	296-15777-1-ND	1,090 1	595- ULN2803ADWR	1,090	1
20	1	AMC3301DWER	SOIC-16 Wide	IC3	-			296- AMC3301QDWE RQ1CT-ND	9,340 1	595- AMC3301DWER	9,220	1
21	1	MCP6004T-I/ST	TSSOP-14	IC4	-			-		579-MCP6004T- I/ST	0,373	1

				RS Componer	nts		TME					Price calculation 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	2	1u	144-7375	CGA3E1X7R1C 105M080AC	0,029	100	CL10B105KO8NNNC	0,014	100		2	TME	0,014 €	2	0,027	
2	1	8n2	-				C0603C822K5RACTU	0,026	100		1	TME	0,026€	1	0,026	
3	2	1n	135-6565	06031C102KAZ 2A	0,014	100	VJ0603Y102KXACW1 BC	0,010	100		2	Farnell	0,009€	2	0,018	
4	3	10u	184-3969	EMK212BB7106 MG-T	0,233	50	CL21A106KOQNNNG	0,034	100		3	TME	0,034€	3	0,103	
5	8	1u	378-665	08052R104K8B B	0,038	25	VJ0805Y105KXXTW1 BC	0,014	100		8	TME	0,014€	8	0,116	
6	19	100n	264-4630	C0603C104K4R ACTU	0,035	25	CL10B104KA8NNNC	0,098	100		19	RS	0,035€	19	0,665	
7	1	22u	766-1182	CL32A226KAJN NNE	0,343	10	CL32A226KAJNNNE	0,158	10		1	TME	0,158€	1	0,158	
8	4	1n	669-8420	CC1206KRX7R9 BB102	0,102	25	CL31B102KBCNNNC	0,027	100		4	TME	0,027 €	4	0,110	
9	2	1u	766-1141	CL31B105KBHN NNF	0,052	100	CC1206KKX7R9105	0,047	100		2	TME	0,047 €	2	0,095	
10	2	100n	391-214	12065C104KAT 2A	0,082	50	1206B104K500CT	0,019	100		2	TME	0,019€	2	0,038	
11	2	BAV199,235	751-3437	BAV199DW-7-F	0,232	25	BAV199.215	0,035	20		2	TME	0,035€	2	0,070	
12	8	SA2M-E3/61T	812-9275	SA2M-E3/5AT	0,116	100	SA2M-E3/61T	0,050	50		8	TME	0,050 €	8	0,397	
13	4	ZH32	-				ZH32	0,228	5	4		TME	0,228€		0,912	
14	1	SN005-60	-				SN005-60	0,075	10		1	TME	0,075€	1	0,075	
15	1	AMC3330QDWERQ1	-				-				1	Digikey	8,980€	1	8,980	
16	1	ADS131E04IPAGR	817-5705	ADS131E04IPA G	6,050	1	-				1	RS	6,050€	1	6,050	
17	1	TPS71725DCKR	-				-				1	Mouser	0,889€	1	0,889	
18	1	TPS72325DBVR	-				-				1	Digikey	2,300 €	1	2,300	
19	1	ULN2803ADWR	646-6311	ULN2803ADW	1,336	1	ULN2803ADWR	0,866	1		1	TME	0,866€	1	0,866	
20	1	AMC3301DWER	-				-				1	Mouser	9,220€	1	9,220	
21	1	MCP6004T-I/ST	-				-				1	Mouser	0,373€	1	0,373	

					Farnell / Element14		14	Digi-Ke	у	Mouse	r	
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price € MOQ	Part Number	Unit price MO0	Part Number	Unit price €	MOQ
22	2	DG212BDY-T1-E3	SOIC-16	IC5, IC7	1469429	DG212BDY-T1-E3	1,820 1	DG212BDY-T1- E3CT-ND	1,550 1	781-DG212BDY- T1-E3	1,470	1
23	1	MCP6001RT-I/OT	SOT-23-5	IC6	8540829	MCP6001RT-I/OT	0,219 1	MCP6001RT-I/ OTCT-ND	0,200 1	579- MCP6001RT-I/ OT	0,203	1
24	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
25	1	EE2-5TNU-L	DPDT Latching relay, Gull Wing Lead	ISEL1A_1	2360813	EE2-5TNU-L	1,900 1	399-11021-1-ND	2,110 1	80-EE2-5TNU-L	2,120	1
26	2	MLZ1608N100LT000	0603	L1, L3	2564062	MLZ1608N100LT0 00	0,167 10	445-6755-1-ND	0,111 10	810- MLZ1608N100LT 000	0,086	10
27	1	DLW21SN371SQ2L	0805	L2	-			490-5141-1-ND	0,410 10	81- DLW21SN371SQ 2L	0,484	10
28	2	BLM18AG102SH1D	0603	L1, L2	3471092	BLM18AG102SH1 D	0,032 10	490-7809-1-ND	0,070 10	81- BLM18AG102SH 1D	0,051	10
29	3	VOR1142B4	SMD DIP-4	OK1, OK2, OK3	2889672	VOR1142B4	1,660 1	VOR1142B4-ND	1,420 1	78-VOR1142B4	1,420	1
30	2	CPC3902ZTR	SOT-223	Q1, Q2	-			CLA4156-1-ND	0,570 1	849- CPC3902ZTR	0,576	1
31	2	BSS214NH6327XTSA1	SOT-23	Q3, Q4	2480650	BSS214NH6327XT SA1	0,408 5	BSS214NH6327 XTSA1CT-ND	0,255 10	726- BSS214NH6327	0,224	10
32	2	47R	0805	R1, R19	2861899	CRGCQ0805J47R	0,007 10	P47.0CCT-ND	0,069 10	279- CRGCQ0805F47 R	0,028	10
33	3	1M5 0.1%	1206	R1, R3, R5	-			RG3216P-1504- B-T1	0,351 10	754-RG3216P- 1504B-T1	0,263	10
34	2	10R	0805	R10, R12, R53, R54	2447556	MCWR08X10R0FT L	0,009 10	2019- RK73H2ATTD10 R0FCT-ND	0,029 10	652-CR0805FX- 10R0ELF	0,012	10
35	2	GMR100HTBFA10L0	2512, low TCR	R11, R35	2808330	GMR100HTBFA10 L0	1,130 5	511-1686-1-ND	1,350 1	755- GMR100HTBFA1 0L0	1,080	1
36	1	15R	0805	R13	2447576	MCWR08X15R0FT L	0,009 10	311-15.0CRCT- ND	0,035 10	667-ERJ- 6ENF15R0V	0,055	10
37	1	50R 0.1%	1206	R15	-			764-1183-1-ND	1,099 10	71- TNPW120650R0 BEEN	0,697	10
38	2	49K9	1206	R17, R18	2908458	CR1206-FX- 4992ELF	0,040 10	RNCP1206FTD4 9K9CT-ND	0,068 10	791- MR12X4992FTL	0,013	10
39	3	100K	1206	R19, R31, R36	2447551	MCWR08X1003FT L	0,010 10	RMCF0805FT10 0KCT-ND	0,024 10	71- CRCW0805100K FKEAC	0,040	10
40	3	470R	0805	R2, R14, R16	1099798	WCR0805-470RFI	0,019 10	311-470CRCT- ND	0,039 10	71- CRCW0805470R FKEB	0,041	10
41	2	4M7 0.1%	1206	R20, R21	-			408-2037-1-ND	0,413 10	754-RG3216P- 4704B-T1	0,356	10
42	3	100K 0.1%	1206	R22, R25, R39	1717738	ERA8AEB101V	0,482 10	RG32P100KBCT -ND	0,346 10	754-RG3216P- 1003-BT5	0,226	10

				RS Compone	nte		TME						1 cot		
#				K3 Componer									ce calculat Lowest		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 €
22	2	DG212BDY-T1-E3	710-4780	DG212BDY-T1- E3	1,630	5	-				2	Mouser	1,470 €	2	2,940
23	1	MCP6001RT-I/OT	667-4335	MCP6001RT-I/ OT	0,203	20	MCP6001RT-I/OT	0,172	10		1	TME	0,172€	1	0,172
24	2	RT424F05	164-7553	RT424F05	6,485	1	5-1393243-2	2,500	2	2		TME	2,500 €	2	5,000
25	1	EE2-5TNU-L	870-5517	EE2-5TNU-L	1,987	1	-				1	Farnell	1,900 €	1	1,900
26	2	MLZ1608N100LT000	-				-				2	Mouser	0,086€	2	0,172
27	1	DLW21SN371SQ2L	724-1674	DLW21SN371S Q2L	0,490	10	DLW21SN371SQ2L	0,234	10		1	TME	0,234 €	1	0,234
28	2	BLM18AG102SH1D	839-0803	BLM18AG102S H1D	0,025	100	BLM18AG102SH1D	0,016	50		2	TME	0,016€	2	0,031
29	3	VOR1142B4	180-7266	VOR1142B4	1,416	5	-				3	RS	1,416 €	3	4,248
30	2	CPC3902ZTR	-				CPC3902ZTR	0,310	5		2	TME	0,310€	2	0,620
31	2	BSS214NH6327XTSA1	827-0058	BSS214NH6327 XTSA1	0,107	100	BSS214NH6327XTSA	0,070	10		2	TME	0,070€	2	0,140
32	2	47R	223-0253	CRG0805F47R	0,016	50	SMD0805-47R-1%	0,022	100		2	Farnell	0,007€	2	0,013
33	3	1M5 0.1%	-				-				3	Mouser	0,263 €	3	0,789
34	2	10R	740-8987	CR0805-FX- 10R0ELF	0,065	50	0805S8J0111T5E	0,013	100		2	Farnell	0,009€	2	0,017
35	2	GMR100HTBFA10L0	-				-				2	Mouser	1,080€	2	2,160
36	1	15R	223-0180	CRG0805F15R	0,045	50	0805S8F150JT5E	0,014	100		1	Farnell	0,009€	1	0,009
37	1	50R 0.1%	-				AR06BTCV0500	0,127	10		1	TME	0,127€	1	0,127
38	2	49K9	679-2174	CRCW120649K 9FKEA	0,039	50	RC1206FR-0749K9	0,029	100		2	Mouser	0,013€	2	0,026
39	3	100K	223-0691	CRG0805F100K	0,028	50	0805S8F1003T5E	0,015	100		3	Farnell	0,010€	3	0,029
40	3	470R	223-0376	CRG0805F470R	0,021	50	RC0805FR-07470R	0,022	100		3	Farnell	0,019€	3	0,057
41	2	4M7 0.1%	-				-				2	Mouser	0,356€	2	0,712
42	3	100K 0.1%	669-6626	ERA8AEB104V	0,608	5	AR06BTCV1003	0,127	10		3	TME	0,127€	3	0,380

								Digi-Ke	y		Mouser			
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
43	4	200K 0.1%	1206	R23, R24, R37, R38	1841801	ERA8AEB204V	0,468	10	RG32P200KBCT -ND	0,355	10	754-RG3216P- 2003-BT5	0,226	10
44	2	330R	0805	R26, R29	2447638	MCWR08X3300FT L	0,007	10	A106061CT-ND	0,038	10	279- CRGCQ0805F33 0R	0,036	10
45	5	10K	0805	R27, R28, R33, R51, R52	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT- ND	0,039	10	603-RC0805FR- 0710KL	0,014	10
46	1	33R	1206, low TCR	R30	-				13- RT1206BRD0733 RLCT-ND	0,393	10	603- RT1206BRD0733 RL	0,266	10
47	1	0R33	1210, low TCR	R32	-				A138567CT-ND	0,316	10	279- RL73H2ER33FT D	0,247	10
48	9	1K		R34, R43, R44, R45, R46, R47, R48, R49, R50	1099800	WCR0805-1K0FI	0,019	10	RC0805FR- 071KL	0,039	10	603-RC0805FR- 071KL	0,015	10
49	1	10K5 0.1%	1206	R6	2338266	MCWF12R1052BT L	0,249	10	A140954CT-ND	0,621	10	754-RG3216P- 1052-BT5	0,226	10
50	1	82K5 0.1%	1206	R7	2338651	MCWF12R8252BT L	0,249	10	RQ73C2B82K5B TD	0,621	10	754-RG3216P- 8252-BT5	0,226	10
51	1	0R220	1210	R8	1717924	ERJ14BQFR22U			RCWE.22FCT- ND	0,438	10	71- RCWE1210R220 FKEA	0,318	10
52	1	PESD12VL1BA,115	SOD-323	TVS1	8737363	PESD12VL1BA,11 5	0,365	5	1727-3808-1-ND	0,320	10	771- PESD12VL1BA- T/R	0,296	10
53	1	691322310008	THT , 8-pin 3.81mm terminal block header, male pins	X1	-				732-2093-ND	1,390	1	710- 691322310008	1,400	1
54	2	P125-2214A0BS230A1	THT; 28-pin 0.1" board-to- board (Producer: DONG GUAN YLIES PRECISE CONNECTOR CO.,LTD)	X2, X3	-				-			-		
55	1	MMSZ5230BT1G	SOD-123	ZD1	1431272	MMSZ5230BT1G	0,177	10	MMSZ5230BT1G OSCT-ND	0,148		863- MMSZ5230BT1G	0,170	10

Not installed				
8 470p	0603	C29, C30, C31, C32, C50, C51, C52, C53		
1 N.C.	0805	C24		
2 N.C.	0603	C35, C41		
4 N.C.	1206	C36, C37, C38, C39		
1 N.C.	1206	C40		
4 15n	603	C42, C43, C44, C45		
1 N.C.	SOIC-8	IC10		
1 N.C.		IC8		
1 N.C.	SOT-23-5	IC9		
5 N.C.	R-EU_R0805	R4, R9, R40, R41, R42		

Related parts and accessories

				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 N	/IOQ	тнт	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
43	4	200K 0.1%	828-0715	ERA8AEB204V	0,608	5	AR06BTCV2003	0,127	10		4	TME	0,127 €	4	0,506
44	2	330R	223-0354	CRG0805F330R	0,040	50	0805S8F3300T5E	0,014	100		2	Farnell	0,007€	2	0,014
45	5	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		5	RS	0,002€	5	0,010
46	1	33R	-				AR06BTCV0330	0,132	10		1	TME	0,132€	1	0,132
47	1	0R33	-								1	Mouser	0,247€	1	0,247
48	9	1K	223-0427	CRG0805F1K0	0,017	50	RC0805FR-071K	0,022	100		9	Mouser	0,015€	9	0,135
49	1	10K5 0.1%	-				-				1	Mouser	0,226€	1	0,226
50	1	82K5 0.1%	-				-				1	Mouser	0,226€	1	0,226
51	1	0R220	721-3433	ERJ14BQFR22U	0,200	5	-				1	RS	0,200€	1	0,200
52	1	PESD12VL1BA,115	508-024	PESD12VL1BA, 115	0,294	20	PESD12VL1BA.115	0,126	5		1	TME	0,126€	1	0,126
53	1	691322310008	824-6661	691322310008	1,470	1	15EDGRC3.81-08P	0,662	1	1		TME	0,662€	1	0,662
54	2	P125-2214A0BS230A1	-				-			2					-
55	1	MMSZ5230BT1G	545-3033	MMSZ5230BT1 G	0,173	20	MMSZ5230BT1G	0,033	25	9	1 85	TME	0,033€	1	0,033 53,78 €
		Not installed													
•	8	470p													
	1	N.C.													
	2	N.C.													
		N.C.													
		N.C.													
		15n													
		N.C.													
		N.C.													
		N.C.													
		Related parts and acces	SI												

EEZ DIB AFE3 BOM (r1B1, 2021-03-30)

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

						Farnell / Elemen	nt14	Digi-K	еу	Mouser		
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price € MOQ	Part Number	Unit price € MOQ	Part Number	Unit price MOQ	
	2	ZKSS-10A										
	2	ZKSS-1.25A										
	2	DS1025-01-1*2P8BV1-B	THT;	JP5, JP6	-			-		-		
	2	JUMPER-2.0/R		JP5, JP6	-			-		-		
	1	691304100008	8-pin 3.81mm push-in connector		-			277-12329-ND	7,410 1	651-1748037	7,440 1	

Custom made components

PCB 4-layer 141.5 x 68.5 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.

				RS Compone	nts	TME				ice calculat	ulation 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 €
	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
	2	DS1025-01-1*2P8BV1-B	-			ZL303-02P	0,013 50	2		TME	0,013€	2	0,025
	2	JUMPER-2.0/R	-			JUMPER-2.0/R	0,044 20			TME	0,044 €	2	0,087
	1	691304100008	185-4361	691304100008	8,900 1					Digikey	7,410€	1	7,410
													9,06 €

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

> Total 71,64€