	#		Farnell / Element	14	Digi-Ke	у	Mouser					
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price € MOQ	Part Number	Unit price MO0	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		100n	0603	C3, C4, C11, C12, C18, C19, C21, C22, C26, C28, C46, C47, C55, C56, C57, C58, C61, C62, C63		C0603C104K4RAC 7081	0,073 10	490-4774-1-ND	0,090 100	C0603C104M4R	0,085	
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		1u	1206, 50V	C6, C14	3013524	CL31B105KBHNN NE	0,144 5	1276-3091-1-ND	0,092 10	CL31B105KBHN FNE	0,051	
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		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		ZH32	THT; 20x5mm fuse holder	F1, F2, F4, F5	-			-		-		
14		SN005-60	1206	F3	3103210	1206L005/60WR	0,771 1	F8129CT-ND	0,460 1	576- 1206L005/60WR	0,440	
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- ADS131E04IPA GR	8,430	1
17	1	TPS71725DCKR	SC70-5	IC12	2348004	TPS71725DCKR.	0,982 1	296-21525-1-ND	0,890 1	595- TPS71725DCKR	0,889	1
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

					TME	,					ce calculat	ion for	1 set		
#				RS Componer				11.20.000					Lowest		1 301
	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 €
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€	4	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

				Farnell / Element	:14	Digi-Ke	y	Mouse	Mouser			
#	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price MO0	Part Number	Unit price MOC	Part Number	Unit price €	MOQ
21	1	MCP6004T-I/ST	TSSOP-14	IC4	-			-		579-MCP6004T- I/ST	0,373	1
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	3	1M5 0.1%	120	6 R1, R3, R5	-			RG3216P-1504- B-T1	0,351 10	754-RG3216P- 1504B-T1	0,263	10
33	5	10R	0805	R10, R12, R13, R53, R54	2447556	MCWR08X10R0FT L	0,009 10	2019- RK73H2ATTD10 R0FCT-ND	0,029 10	652-CR0805FX- 10R0ELF	0,012	10
34	2	GMR100HTBFA10L0	2512, low TCR (max. ±25ppm/°C)	R11, R35	2808330	GMR100HTBFA10 L0	1,130 5	511-1686-1-ND	1,350 1	755- GMR100HTBFA1 0L0	1,080	1
35	1	20R	1206, low TCR (max. ±25ppm/°C)	R15	-			311-2930-1-ND	0,202 10	652- CRT1206BY20R 0ELF	0,257	10
36	2	49K9	1206	R17, R18	2908458	CR1206-FX- 4992ELF	0,040 10	RNCP1206FTD4 9K9CT-ND	0,068 10	791- MR12X4992FTL	0,013	10
37	3	100K	1206	R19, R31, R36	2447551	MCWR08X1003FT L	0,010 10	RMCF0805FT10 0KCT-ND	0,024 10	71- CRCW0805100K FKEAC	0,040	10
38	3	470R	0805	R2, R14, R16	1099798	WCR0805-470RFI	0,019 10	311-470CRCT- ND	0,039 10	71- CRCW0805470R FKEB	0,041	10
39	2	4M7 0.1%	1206	R20, R21	-			408-2037-1-ND	0,413 10	754-RG3216P- 4704B-T1	0,356	10
40	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
41	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

				RS Compone	nts	•	TME		01111100	_ 0,00.			ce calculat	lculation 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 €	
21	1	MCP6004T-I/ST	-				-				1	Mouser	0,373€	1	0,373	
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€		1,900	
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 1	0,070	10		2	TME	0,070 €	2	0,140	
32	3	1M5 0.1%	-				-				3	Mouser	0,263 €	3	0,789	
33	5	10R	740-8987	CR0805-FX- 10R0ELF	0,065	50	0805S8J0111T5E	0,013	100		5	Farnell	0,009€	5	0,043	
34	2	GMR100HTBFA10L0	-				-				2	Mouser	1,080€	2	2,160	
35	1	20R	-				-				1	Digikey	0,202€	1	0,202	
36	2	49K9	679-2174	CRCW120649K 9FKEA	0,039	50	RC1206FR-0749K9	0,029	100		2	Mouser	0,013€	2	0,026	
37	3	100K	223-0691	CRG0805F100K	0,028	50	0805S8F1003T5E	0,015	100		3	Farnell	0,010€	3	0,029	
38	3	470R	223-0376	CRG0805F470R	0,021	50	RC0805FR-07470R	0,022	100		3	Farnell	0,019€	3	0,057	
39	2	4M7 0.1%	-				-				2	Mouser	0,356€	2	0,712	
40	3	100K 0.1%	669-6626	ERA8AEB104V	0,608	5	AR06BTCV1003	0,127	10		3	TME	0,127 €	3	0,380	
41	4	200K 0.1%	828-0715	ERA8AEB204V	0,608	5	AR06BTCV2003	0,127	10		4	TME	0,127€	4	0,506	

				oue ut mipe	Farnell / Element			Digi-Key	,	Mouser				
#						r arrion / Elomont	Limit maion					illoudo.	Linit price	
	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price N	10Q	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
42	2	330R	0805	R26, R29	2447638	MCWR08X3300FT L	0,007	10	A106061CT-ND	0,038	10	279- CRGCQ0805F33 0R	0,036	10
43	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
44	1	33R	1206, low TCR (max. ±25ppm/°C)	R30	-				13- RT1206BRD073 3RLCT-ND	0,393		603- RT1206BRD073 3RL	0,266	10
45	1	1K		R34	1099800	WCR0805-1K0FI			RC0805FR- 071KL	0,039	10	603-RC0805FR- 071KL	0,015	10
46	1	10K5 0.1%	1206	R6	2338266	MCWF12R1052BT L	0,249	10	A140954CT-ND	0,621	10	754-RG3216P- 1052-BT5	0,226	10
47	1	82K5 0.1%	1206	R7	2338651	MCWF12R8252BT L	0,249	10	RQ73C2B82K5B TD	0,621	10	754-RG3216P- 8252-BT5	0,226	10
48	2	GMR100HTBFIR022	2512, low TCR (max. ±25ppm/°C)	R8, R32	-				511-1688-1-ND	1,090	10	755- GMR100HTBFIR 022	1,250	1
49	1	PESD12VL1BA,115	SOD-323	TVS1	8737363	PESD12VL1BA,11 5	0,365	5	1727-3808-1-ND	0,320		771- PESD12VL1BA- T/R	0,296	10
50	1	691322310008	<b>THT</b> , 8-pin 3.81mm terminal block header, male pins	X1	-				732-2093-ND	1,390	1	710- 691322310008	1,400	1
51	2	P125-2214A0BS230A1	THT; 28-pin 0.1" board-to- board (Producer: DONG GUAN YLIES PRECISE CONNECTOR CO.,LTD)	X2, X3	-				-			-		
52	1	MMSZ5230BT1G	SOD-123	ZD1	1431272	MMSZ5230BT1G	0,177	10	MMSZ5230BT1G OSCT-ND	0,148		863- MMSZ5230BT1G	0,170	10
		Not installed												
	2	N.C.	1206	C24, C35										
		N.C.		IC8										
	1	N.C.	SOT-23-5	IC9										
	5	N.C.	R-EU_R0805	R4, R9, R40, R41, R42										
		Related parts and acces	ssories											
	2 ZKSS-10A													
		ZKSS-1.25A												
		DS1025-01-1*2P8BV1-B	THT;	JP5, JP6	-				-			-		
		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

<sup>1</sup> PCB 4-layer 141.5 x 68.5 JLCPCB.com mm

	RS Components					ТМЕ					Pri	ce calculat	ion for	1 set	
#	Qty	Part name	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price N	MOQ	тнт	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
42	2	330R	223-0354	CRG0805F330R	0,040	50	0805S8F3300T5E	0,014	100		2	Farnell	0,007€	2	0,014
43	5	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		5	RS	0,002€	5	0,010
44	1	33R	-				AR06BTCV0330	0,132	10		1	TME	0,132€	1	0,132
45	1	1K	223-0427	CRG0805F1K0	0,017	50	RC0805FR-071K	0,022	100		1	Mouser	0,015€	1	0,015
46	1	10K5 0.1%	-				-				1	Mouser	0,226€	1	0,226
47	1	82K5 0.1%	-				-				1	Mouser	0,226€	1	0,226
48	2	GMR100HTBFIR022	-				-				2	Digikey	1,090€	2	2,180
49	1	PESD12VL1BA,115	508-024	PESD12VL1BA, 115	0,294	20	PESD12VL1BA.115	0,126	5		1	TME	0,126€	1	0,126
50	1	691322310008	824-6661	691322310008	1,470	1	15EDGRC3.81-08P	0,662	1	1		TME	0,662€	1	0,662
51	2	P125-2214A0BS230A1	-				-			2					-
52	1	MMSZ5230BT1G	545-3033	MMSZ5230BT1 G	0,173	20	MMSZ5230BT1G	0,033	25	9	1 77	TME	0,033€	1	0,033 <b>55,47</b> €
•															•
	2	Not installed N.C.					I								
		N.C.													
		N.C.													
		N.C.													
							•								
		Related parts and acces	<b>S</b> !												
		ZKSS-10A					ZKSS-10A	0,459				TME	0,459€		0,918
		ZKSS-1.25A					ZKSS-1.25A	0,312		•		TME	0,312€		0,624
		DS1025-01-1*2P8BV1-B	-				ZL303-02P	0,013		2		TME	0,013€		0,025
		JUMPER-2.0/R 691304100008	105 4064	691304100008	8,900	4	JUMPER-2.0/R	0,044	20			TME	0,044 € 7,410 €		0,087
	1	091304100000	165-4361	091304100008	0,900	'						Digikey	7,410€	'	7,410 9,06 €
		Custom made comment													
	1	Custom made compone PCB 4-layer 141.5 x 68.5										JLCPCB	8,796 €	1	8,796
		mm													8,80 €

## EEZ DIB AFE3 BOM (r1B4, 2021-05-17)

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

					Farnell / Element14			ey	Mouser		
# Qty	Part name	Package	Reference designator	Code	Part Number	Unit price € MOQ	Part Number	Unit price MOQ €	Part Number	Unit price MOQ	

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 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 €

Total 73,33€