

EEZ DIB MCU BOM (r1B3, 2019-05-08)
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	S8401-46 or DS1092-16-B6P	THT; CR2032 cell battery holder; vertical	B1	2115304	S8401-46	2,190	1	952-1743-1-ND	1,230	1	855-S8401-46	1,220	1
2	2	2n2/1kV	1206 or 1210	C1, C51	1855965	MC1210B222K102 CT	0,496	5	490-12018-1-ND	0,502	10	710-885342208019	0,121	10
3	2	4p7	0603, C0G	C10, C12	2627469	MC0603N4R7C500 CT	0,329	10	311-1740-1-ND	0,054	10	710-885012006049	0,072	10
4	1	EEEFK1V470P	Ø6.3 x 5.8 mm	C13	9695850	EEEFK1V470P	0,364	1	PCE3842CT-ND	0,302	10	667-EEE-FK1V470P	0,238	10
5	3	4u7/6.3V	1206, Tant.	C15, C22, C49	2321209	T491A475K006AT	0,421	5	399-9717-1-ND	0,259	10	80-T491A475K006AT	0,184	10
6	39	100n	0603	C2, C5, C8, C14, C16, C17, C18, C19, C20, C21, C23, C26, C27, C28, C29, C30, C31, C32, C35, C38, C40, C41, C42, C43, C44, C45, C46, C52, C57, C61, C62, C63, C64, C65, C66, C68, C69, C70, C71	2522597	C0603C104K4RAC 7081	0,073	10	490-4774-1-ND	0,090	100	80-C0603C104M4R	0,085	100
7	5	1u	0805	C24, C33, C34, C48, C58	2896566	VJ0805Y105KXXT W1BC	0,084	5	587-1283-1-ND	0,090	10	603-CC805MKX7R7B B105	0,062	10
8	4	10n	0805	C3, C4, C6, C7										
9	3	2u2	0805	C36, C37, C50	1828829	GRM21BR71C225 KA12L	0,198	5	1276-2954-1-ND	0,085	10	80-C0805C225M4R ECLR	0,078	10
10	3	4u7	1206	C39, C47, C53	1907356	C3216X7R1E475K 160AC	0,282	5	1276-2970-1-ND	0,199	10	963-EMK316B7475M L-T	0,129	10
11	2	470n	0805	C54, C55	2896591	VJ0805Y474KXQT W1BC	0,094	5	1276-2966-1-ND	0,151	10	603-CC0805JK7R9B B474	0,049	10
12	1	10u	1206, Tant.	C67	1457412	T491A106K006AT	0,259	5	399-3683-1-ND	0,238	10	80-T491A106K0067 280	0,173	10
13	2	18p	0603, C0G	C9, C11	2896373	VJ0603A180JXAC W1BC	0,016	10	1276-1089-1-ND	0,048	10	80-C0603C180J5G7 867	0,023	10
14	1	SMBJ5.0A-TR	DO-214AA	D1	2353654	SMBJ5.0ATR	0,232	5	497-3144-1-ND	0,263	10	511-SMBJ5.0A	0,306	1
15	1	RB751V40T1G	SOD-323, low capacitance switching diode	D2	1459171	RB751V40T1G	0,143	5	RB751V40T1GO SCT-ND	0,192	10	863-RB751V40T1G	0,146	10
16	2	SM005-60	1210 fuse; 50mA	F1, F2	1822205	1210L005WR	0,419	5	507-1782-1-ND	0,110	1	530-OZCH0005FF2E	0,094	1
17	1	BLM18AG102SH1D	0603 ferrite bead; 60R; 100MHz	FB1, FB2	1669708	MMZ1608Y102B	0,072	10	490-7809-1-ND	0,052	50	81-BLM18AG102SH 1D	0,063	10
18	2	TPD4E001DRLR	SOT-6	IC1, IC11	1611469	TPD4E001DRLR	0,453	5	296-21887-1-ND	0,590	1	595-TPD4E001DRLR	0,536	1
19	1	TPS61169DCKR	SC-70-5	IC10	2542731	TPS61169DCKR	0,661	1	296-40821-1-ND	0,790	1	595-TPS61169DCKR	0,770	1

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#	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 €
1	1	S8401-46 or DS1092-16-B6P	161-3709	S8401-46	1,454	5	DS1092-16-B6P	0,147	10	1		TME	0,147 €	1	0,147
2	2	2n2/1kV	723-6492	GRM31BR73A2 22KW01L	0,246	25	1206B222K102CT	0,030	50	2		TME	0,030 €	2	0,059
3	2	4p7	298-9315	C0603C479C5G ACTU	0,024	25	CL10C4R7CB8NNNC	0,024	100	2		RS	0,024 €	2	0,048
4	1	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5	1		TME	0,130 €	1	0,130
5	3	4u7/6.3V	538-2335	T491A475K006 AT	0,337	10	T491A475K006AT	0,094	10	3		TME	0,094 €	3	0,281
6	39	100n	264-4630	C0603C104K4R ACTU	0,035	25	CL10B104KA8NNNC	0,098	100	39		RS	0,035 €	39	1,365
7	5	1u	451-5770	C0805C105K4R ACTU	0,028	25	CL21B105KOFNNNE	0,010	100	5		TME	0,010 €	5	0,052
8	4	10n								4		Farnell	0,000 €	4	0,000
9	3	2u2	766-1031	CL21B225KAFN NNF	0,069	100	CL21B225KOFNNNG	0,071	100	3		RS	0,069 €	3	0,207
10	3	4u7	691-1221	C1206C475K3R ACTU	0,232	25	GCM31CR71E475KA5 5L	0,381	10	3		Mouser	0,129 €	3	0,387
11	2	470n	174-4499	C0805X474K5R ECAUTO	0,091	100	CL21B474KBFNNNE	0,027	100	2		TME	0,027 €	2	0,053
12	1	10u	136-2614	F930J106MA	0,182	25	T491A106K006AT	0,069	25	1		TME	0,069 €	1	0,069
13	2	18p	147-415	C0603C180J5G ACTU	0,032	50	CL10C180JB8NNNC	0,015	100	2		TME	0,015 €	2	0,030
14	1	SMBJ5.0A-TR	714-7210	SMBJ5.0A-TR	0,268	25	SMBJ5.0A-TR	0,114	5	1		TME	0,114 €	1	0,114
15	1	RB751V40T1G	690-0022	RB751V40T1G	0,137	25	RB751V40T1G	0,036	25	1		TME	0,036 €	1	0,036
16	2	SM005-60	647-8342	MF-USMF005-2	0,278	10	SM005-60	0,085	10	2		TME	0,085 €	2	0,170
17	1	BLM18AG102SH1D	839-0803	BLM18AG102S H1D	0,043	100	BLM18AG102SH1D	0,016	50	1		TME	0,016 €	1	0,016
18	2	TPD4E001DRLR	709-9066	TPD4E001DRL R	0,552	5	-			2		Farnell	0,453 €	3	1,359
19	1	TPS61169DCKR	-	-			-			1		Farnell	0,661 €	1	0,661

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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
20	1	TPA6205A1DGN	MSOP-8	IC12	2782859	TPA6205A1DGNR	0,683	1	296-21262-1-ND	0,820	1	595-TPA6205A1DGNR	0,791	1
21	1	TSC2007IPW	TSSOP-16	IC14	2769429	TSC2007IPWR	1,700	1	296-27124-1-ND	2,110	1	595-TSC2007IPWR	2,040	1
22	1	DP83848CVV/NOPB	LQFP-48	IC16	1685784	DP83848CVV/NOPB	4,850	1	DP83848CVV/NOPB-ND	4,280	1	926-DP83848CVV/NOPB	4,260	1
23	1	SN74LVC2G34DBVR	SOT-23	IC2	1470888	SN74LVC2G34DBVR	0,377	1	296-13496-1-ND	0,470	1	595-SN74LVC2G34DBVR	0,451	1
24	1	BTS3408G	SOIC-8	IC3	2480561	BTS3408G	1,380	1	BTS3408GXUMA2CT-ND	1,740	1	726-BTS3408GXUMA2	1,610	1
25	1	STM32F769IGT6	LQFP-176	IC4	-				497-16648-ND	12,850	1	511-STM32F769IGT6	12,780	1
26	1	LD1117ADT33TR	TO-252 (DPAK)	IC5	2849768	LD1117ADT33TR	0,419	1	497-3455-1-ND	0,420	1	511-LD1117ADT33-TR	0,408	1
27	1	IS42S16400J	TSOP-II	IC7	2901167	IS42S16400J-6TLI	2,710	1	IS42S16400J-7TLI	2,050	1	870-IS42S16400J-7TL	1,410	1
28	1	AT24C256C-SSHL-B	SOIC-8	IC8	1972001	AT24C256C-SSHL-B	0,685	1	AT24C256C-SSHL-B-ND	0,540	1	556-AT24C256C-SSHL-B	0,541	1
29	1	TPS2051BDBVR	SOT-23-5	IC9	2296067	TPS2051BDBVR	1,080	1	296-21265-1-ND	1,280	1	595-TPS2051BDBVR	1,220	1
30	1	503398-1892	SMD; Micro SD, push-push, 8-pin	J1	2358234	503398-1892	1,980	1	WM11190CT-ND	2,160	1	538-503398-1892	1,960	1
31	1	67803-8020	SMD; USB mini AB, OTG, 5-pin	J2	1355761	67803-8020	1,470	1	WM17148CT-ND	1,790	1	538-67803-8020	1,790	1
32	1	M22-2510246	THT; Connector Header; 2 position; 2.00mm	JP2	2289776	M22-2510205	0,096	100	952-2280-ND	0,150	1	855-M22-2510246	0,148	1
33	1	DLG-0403-4R7	0403 power inductor	L1	1827980	SDR0403-4R7ML	0,406	5	SDR0403-4R7MLCT-ND	0,424	10	652-SDR0403-4R7ML	0,272	10
34	1	505110-4091	SMD; FFC/FPC 40-pin lower side entry	LCD1	2500025	505110-4091	-		WM11292CT-ND	1,250	1	538-505110-4091	1,150	1
35	9	4K7	0805	R1, R2, R3, R6, R7, R9, R14, R15, R16	2861530	CRGCQ0805F4K7	0,009	10	311-4.70KCRCT-ND	0,090	1	603-RC0805FR-074K7L	0,026	10
36	1	47R	0805	R17	2861899	CRGCQ0805J47R	0,007	10	P47.0CCT-ND	0,069	10	279-CRGCQ0805F47R	0,028	10
37	4	47K	0805	R21, R22, R28, R36	2447664	MCWR08X4702FTL	0,010	10	RHM47KKCT-ND	0,074	10	603-RC0805FR-0747KL	0,026	10
38	2	10R	0805	R24, R26	9236643	RC1206FR-0710RL	0,050	10	311-10.0CRCT-ND	0,071	10	603-RC1206FR-0710RL	0,034	10
39	2	22R	0805	R29, R30	1099795	WCR0805-220RFI	0,019	10	RMCF0805FT22R0CT-ND	0,020	10	RC0805FR-07220RL	0,026	10
40	1	1K5	0805	R39, R40, R43, R48	2861908	CRGCQ0805J1K5	0,007	10	541-4161-1-ND	0,041	10	279-CRGCQ0805F1K5	0,085	10

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20	1	TPA6205A1DGN	812-4268	TPA6205A1DGN	0,815	10	TPA6205A1DGN	0,791	1		1	Farnell	0,683 €	1	0,683
21	1	TSC2007IPW	661-3545	TSC2007IPW	2,340	1	-		1		1	Farnell	1,700 €	1	1,700
22	1	DP83848CVV/NOPB	651-5738	DP83848CVV/NOPB	4,310	1	DP83848CVV/NOPB	3,000	1		1	TME	3,000 €	1	3,000
23	1	SN74LVC2G34DBVR	662-8963	SN74LVC2G34DBVR	0,458	5	SN74LVC2G34DBVR	0,302	3		1	TME	0,302 €	1	0,302
24	1	BTS3408G	825-9099	BTS3408GXUMA2	1,271	10	BTS3408	0,860	2		1	TME	0,860 €	1	0,860
25	1	STM32F769IGT6	-				STM32F769IGT6	12,250	1		1	TME	12,250 €	1	12,250
26	1	LD1117ADT33TR	686-9123	LD1117ADT33TR	0,499	10	LD1117ADT33	0,521	3		1	Mouser	0,408 €	1	0,408
27	1	IS42S16400J	811-5125	IS42S16400J-7TLI	2,565	2	IS42S16400J-7TL	2,050	1		1	Mouser	1,410 €	1	1,410
28	1	AT24C256C-SSHL-B	738-0041	AT24C256C-SSHL-B	0,488	5	AT24C256C-SSHL-B	0,470	3		1	TME	0,470 €	1	0,470
29	1	TPS2051BDBVR	662-2384	TPS2051BDBVT	1,284	5	-				1	Farnell	1,080 €	1	1,080
30	1	503398-1892	880-1277	503398-1892	2,600	1	MX-503398-1892	0,860	2	1		TME	0,860 €	1	0,860
31	1	67803-8020	720-6618	67803-8020	1,540	5	MX-67803-8020	0,590	1	1		TME	0,590 €	1	0,590
32	1	M22-2510246	681-3287	M22-2010205	0,215	10	ZL303-02P	0,012	50	1		TME	0,012 €	1	0,012
33	1	DLG-0403-4R7	-				DLG-0403-4R7	0,129	10		1	TME	0,129 €	1	0,129
34	1	505110-4091	-				-				1	Mouser	1,150 €	1	1,150
35	9	4K7	223-0528	CRG0805F4K7	0,010	50	SMD0805-4K7-1%	0,022	100		9	Farnell	0,009 €	9	0,077
36	1	47R	223-0253	CRG0805F47R	0,016	50	SMD0805-47R-1%	0,022	100		1	Farnell	0,007 €	1	0,007
37	4	47K	679-1434	CRCW080547K0FKEA	0,046	50	SMD0805-47K-1%	0,022	100		4	Farnell	0,010 €	4	0,038
38	2	10R	740-9085	CR1206-FX-10R0ELF	0,036	50	CRCW120610R0FKTABC	0,031	100		2	TME	0,031 €	2	0,062
39	2	22R	223-0332	CRG0805F220R	0,024	50	SMD0805-220R-1%	0,022	100		2	Farnell	0,019 €	2	0,038
40	1	1K5	223-0449	CRG0805F1K5	0,036	50	SMD0805-1K5-1%	0,022	100		1	Farnell	0,007 €	1	0,007

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41	2	1K	0805	R4, R8	1099800	WCR0805-1K0FI	0,019	10	RC0805FR-071KL	0,039	10	603-RC0805FR-071KL	0,015	10
42	4	49R9	0805	R40, R41, R44, R49	2447669	MCWR08X49R9FT-L	0,009	10	311-49.9CRCT-ND	0,039	10	603-RC0805FR-0749R9L	0,026	10
43	9	2K2	0805	R42, R43, R45, R47, R48, R50, R53, R54, R56	9237534	RC0805FR-072K2L	0,037	10	311-2.20KCRCT-ND	0,039	10	603-RC0805FR-072K2L	0,026	10
44	12	10K	0805	R5, R10, R11, R12, R13, R31, R32, R33, R34, R35, R37, R38	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
45	2	220R	0805	R51, R52	1099795	WCR0805-220RFI	0,019	10	RMCF0805FT22-0RCT-ND	0,020	10	603-RC0805FR-13220RL	0,020	10
46	1	4K87	0805	R55	1469925	CRCW08054K87F-KEA	0,016	10	311-4.87KCRCT-ND	0,039	10	652-CR0805FX-4871ELF	0,037	10
47	4	DR1206-33R-4/8	1206; resistor array	RN1, RN2, RN3, RN4	1770128	CAY16-330J4LF	0,069	10	CAY16-330J4LFCT-ND	0,090	1	652-CAY16-330J4LF	0,085	1
48	1	LD-BZEL-M1313	SMD; loudspeaker 0.7W; 13x13x4mm; 88dB	SP1	-				-			-		
49	1	PEC16-2215F-S0024	THT; encoder with switch	SW1	-				PEC16-2215F-S0024-ND	1,340	1	652-PEC16-2215FS0024	1,220	1
50	1	TL1100CF160Q	Tactile switch, without cap	SW2	2830627	TL1100CF160Q	0,474	1	EG1822-ND	0,380	1	612-TL1100C	0,442	1
51	1	ZL263-40DG	THT; 40-pin socket; female; angled 90°	X1	1805895	SSW-120-02-T-D-RA	4,920	1	SAM11958-ND	3,060	1	200-SSW12002TDRA	3,050	1
52	1	ZL231-16KG	THT; 16-pin IDC socket; male; angled 90°	X2	1642024	61201621721	0,676	1	S9179-ND	0,620	1	710-61201621721	0,680	1
53	1	1844249	THT; Pluggable Terminal Blocks; 3.5mm; 5-pin	X3	2493680	CTB932HD/5	0,373	10	732-2772-ND	1,010	1	710-691322110005	1,000	1
54	1	LMJTAB881243M-L	THT; RJ45 socket with magnetics and LEDs; shielded	X5	-				-			Non-Stocked, Call for Quote		
55	1	25 MHz	SMD; HC-49/US; XTAL	Y1	2832034	LFXTAL033342	0,227	1	1923-1536-1-ND	0,360	1	815-ABLS-25.0M-F-T	0,298	1
56	1	XTAL016178-85SMX	SMD; 8.7mm x 3.7mm; XTAL	Y2	1652572	XTAL016178-85SMX	0,440	1	1923-1021-1-ND	0,520	1	449-LFXTAL016178R EEL	0,393	1
57	2	SMAJ18A	DO-214AC	ZD1, ZD2	2677644	SMAJ18A	0,097	5	SMAJ18A-FDICT-ND	0,350	1	621-SMAJ18A-13-F	0,315	1
Not installed / optional														
	2	2n2/1kV	1206 or 1210	C1, C51	1855965	MC1210B222K102 CT	0,496	5	490-12018-1-ND	0,502	10	710-885342208019	0,121	10
	1	N.C.	0603	C25										
	2	100n	0603	C56, C60	2522597	C0603C104K4RAC7081	0,073	10	490-4774-1-ND	0,090	100	80-C0603C104M4R	0,085	100
	1	470n	0805	C59	2896591	VJ0805Y474KXQT W1BC	0,094	5	1276-2966-1-ND	0,151	10	603-CC0805JK7R9B B474	0,049	10
	3	TPD4E001DRLR	SOT-6	IC6, IC13, IC15	1611469	TPD4E001DRLR	0,453	5	296-21887-1-ND	0,590	1	595-TPD4E001DRLR	0,536	1

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41	2	1K	223-0427	CRG0805F1K0	0,017	50	SMD0805-1K-1%	0,022	100		2	Mouser	0,015 €	2	0,030
42	4	49R9	679-1462	CRCW080549R9FKEA	0,036	50	RC0805FR-0749R9	0,035	100		4	Farnell	0,009 €	2	0,019
43	9	2K2	679-1207	CRCW08052K20FKEA	0,039	50	SMD0805-2K2-1%	0,022	100		9	TME	0,022 €	2	0,045
44	12	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		12	RS	0,002 €	2	0,004
45	2	220R	223-0332	CRG0805F220R	0,018	50	SMD0805-220R-1%	0,022	100		2	RS	0,018 €	2	0,036
46	1	4K87	-				RC0805FR-074K87	0,035	100		1	Farnell	0,016 €	1	0,016
47	4	DR1206-33R-4/8	522-5670	CAY16-330J4LF	0,004	50	DR1206-33R-4/8	0,009	100		4	RS	0,004 €	4	0,016
48	1	LD-BZEL-M1313	-				LD-BZEL-M131	1,580	1		1	TME	1,580 €	1	1,580
49	1	PEC16-2215F-S0024	-				-				1	Mouser	1,220 €	1	1,220
50	1	TL1100CF160Q	-				-				1	Digikey	0,380 €	1	0,380
51	1	ZL263-40DG	154-8342	SSW-120-02-F-D-RA	4,320	1	ZL263-40D	0,680	1		1	TME	0,680 €	1	0,680
52	1	ZL231-16KG	771-8367	61201621721	0,676	5	ZL231-16K	0,135	5		1	TME	0,135 €	1	0,135
53	1	1844249	824-6642	691322110005	0,960	1	-				1	Farnell	0,373 €	1	0,373
54	1	LMJTAB881243M-L	-				LMJTAB881243M-L	1,890	1		1	TME	1,890 €	1	1,890
55	1	25 MHz	478-9628	LFXTAL010595	0,764	1	25.00M-SMDHC49R	0,443	2		1	Farnell	0,227 €	1	0,227
56	1	XTAL016178-85SMX	148-4350	LFXTAL016178	0,252	20	32.768KHZ-MC306	0,195	8		1	TME	0,195 €	1	0,195
57	2	SMAJ18A	710-3443	SMAJ18A-E3/61	0,246	25	SMAJ18A-E3/61	0,100	5		2	Farnell	0,097 €	2	0,193
											10	145			
															37,35 €

Not installed / optional														
2	2n2/1kV	723-6492	GRM31BR73A2 22KW01L	0,246	25	1206B222K102CT	0,030	50	2	TME	0,030 €	2	0,059	
1	N.C.								1	Farnell	0,000 €	1	0,000	
2	100n	264-4630	C0603C104K4R ACTU	0,035	25	CL10B104KA8NNNC	0,098	100	2	RS	0,035 €	2	0,070	
1	470n	174-4499	C0805X474K5R ECAUTO	0,091	100	CL21B474KBFNNE	0,027	100	1	TME	0,027 €	1	0,027	
3	TPD4E001DRLR	709-9066	TPD4E001DRL R	0,552	5	-			3	Farnell	0,453 €	3	1,359	

#					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 €
1	MMBT5551	SOT-23	Q1	1459109	MMBT5551LT1G	0,154	5	MMBT5551LT1G OSCT-ND	0,180	1	863- MMBT5551LT1G	0,170	1
1	10K	0805	R18	9237755	RC0805FR- 0710KL	0,022	10	311-10.0KCRCT- ND	0,039	10	603-RC0805FR- 0710KL	0,014	10
2	22R	0805	R19, R20	1099795	WCR0805-220RFI	0,019	10	RMCF0805FT22 R0CT-ND	0,020	10	RC0805FR- 07220RL	0,026	10
2	N.C.	0805	R23, R27										
1	330R	0805	R25										
1	47K	0805	R27	2447664	MCWR08X4702FT L	0,010	10	RHM47KKCT-ND	0,074	10	603-RC0805FR- 0747KL	0,026	10
1	220R	0805	R46	1099795	WCR0805-220RFI	0,019	10	RMCF0805FT22 ORCT-ND	0,020	10	603-RC0805FR- 13220RL	0,020	10
1	LTST-C170YKT	0805 LED; Yellow	SPEED	2062217	SML-LX0805YC- TR	0,180	5	160-1175-1-ND	0,229	10	859-LTST- C170YKT	0,153	10
1	LTST-C170GKT	0805 LED; Green	VBUS	2322081	150080VS75000	0,171	5	160-1179-1-ND	0,201	10	859-LTST- C170GKT	0,136	10
1	22-23-2061	THT; 6-pin, 0.1" socket; wire- board; male	X4	1462922	22-23-2061	0,229	100	WM4204-ND	0,341	10	538-22-23-2061	0,275	10
1	BZX384-B30.115	SOD-323	ZD3	2575164	BZX384-B30	0,157	5	1727-3649-1-ND	0,223	10	771-BZX384- B30115	0,157	10

Related parts and accessories

1	4JRED	SW2 button cap; red	-					-			612-4J-RD	0,145	1
1	A3131068	SW1 knob without pointer; Ø31x16mm; grey	-					-			-		
1	A3231007	SW1 knob cap; blue	-					-			-		
1	RFE43BH-AIW-DNS	TFT LCD 4.3"; 480x272; resistive	-					-			-		
1	15EDGKN-3.5-05P-14-1000AH	Pluggable terminal block; 3.5mm; push-in, 5-pin		1792972	FMC 1,5/ 5-ST-3,5	3,360	1	277-6248-ND	5,060	1	651-1952296	5,060	1
1	CR2025	Battery; lithium; 3V; Ø20x2.5mm		1823475	CR 2025 MFR (1BL)	1,710	1	1908-1384-ND	0,230	1	-		

Custom made components

1	PCB 4-layer 139 x 70 mm	ALLPCB.com (Qty of 5)	-
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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.

EEZ DIB MCU BOM (r1B3, 2019-05-08)

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

#	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 €
1	MMBT5551	545-0400	MMBT5551LT1 G	0,146	10	MMBT5551	0,024	25	1	TME	0,024 €	1	0,024		
1	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100	1	RS	0,002 €	2	0,004		
2	22R	223-0332	CRG0805F220R	0,024	50	SMD0805-220R-1%	0,022	100	2	Farnell	0,019 €	2	0,038		
2	N.C.								2	Farnell	0,000 €	3	0,000		
1	330R								1	Farnell	0,000 €	3	0,000		
1	47K	679-1434	CRCW080547K 0FKEA	0,046	50	SMD0805-47K-1%	0,022	100	1	Farnell	0,010 €	1	0,010		
1	220R	223-0332	CRG0805F220R	0,018	50	SMD0805-220R-1%	0,022	100	1	RS	0,018 €	2	0,036		
1	LTST-C170YKT	692-0925	LTST-C170YKT	0,206	50	LTST-C170YKT	0,055	10	1	TME	0,055 €	1	0,055		
1	LTST-C170GKT	692-0900	LTST-C170GKT	0,211	50	LTST-C170GKT	0,055	10	1	TME	0,055 €	1	0,055		
1	22-23-2061	679-5593	22-23-2061	0,221	10	MX-22-23-2061	0,124	5	1	TME	0,124 €	1	0,124		
1	BZX384-B30.115	751-3720	BZT52C30S-7-F	0,020	100	BZX384-B30.115	0,029	20	1	RS	0,020 €	1	0,020		

Related parts and acces:

1	4JRED	-				-					Mouser	0,145 €	1	0,145
1	A3131068	-				A3131068	2,090	1			TME	2,090 €	1	2,090
1	A3231007	-				A3231007	0,715	1			TME	0,715 €	1	0,715
1	RFE43BH-AIW-DNS	-				RFE43BH-AIW-DNS	21,140	1			TME	21,140 €	1	21,140
1	15EDGKN-3.5-05P-14-1000AH	176-1456	1952296	5,056	1	15EDGKN-3.5-05P-14-1000AH	1,271	1			TME	1,271 €	1	1,271
1	CR2025	457-4741	CR-2025/BN	1,740	1	BAT-CR2025/RE-B	0,580	1			Digikey	0,230 €	1	0,230

25,59 €

Custom made componer

1	PCB 4-layer 139 x 70 mm						ALLPCB	12,800 €	1	12,800
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12,80 €

Total 75,75 €