

EEZ DIB BP3C BOM (r3B2, 2019-09-18)
Project source code at <https://github.com/eez-open/modular-psu>

#	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
1	1	100n	0603	C1	2522597	C0603C104K4RAC 7081	0.073	10	490-4774-1-ND	0.090	100	80- C0603C104M4R	0.085	100
2	1	1n	0805	C2	2896470	VJ0805A102JXAC W1BC	0.044	10	732-7858-1-ND	0.055	10	710- 885012007040	0.052	10
3	6	BAS316	SOD-323	D3, D4, D5, D6, D8, D9	8734275	BAS316,115	0.193	5	1727-7370-1-ND	0.120	1	771-BAS316-T/R	0.179	1
4	1	TCA9534PWR	TSSOP-16	IC1	-				296-40574-1-ND	1.150	1	595- TCA9534PWR	0.934	10
5	4	RT424005	THT; 8A relay	K1, K2, K3, K4	1629052	RT424005	2.640	1	PB1998-ND	3.620	1	655-RT424005	2.820	1
6	4	2N7002	SOT-23	Q1, Q2, Q3, Q4	1713825	2N7002K-7	0.148	5	T2N7002AKLMC T-ND	0.126	10	757- T2N7002AKLM	0.113	10
7	4	100K	0805	R1, R2, R4, R5	2447551	MCWR08X1003FT L	0.010	10	RMCF0805FT10 0KCT-ND	0.024	10	71- CRCW0805100K FKEAC	0.040	10
8	1	10K	0805	R11	9237755	RC0805FR- 0710KL	0.022	10	311-10.0KCRCT- ND	0.039	10	603-RC0805FR- 0710KL	0.014	10
9	3	DS1021-2*10SF11	THT; 2x10-pin 0.1" header	X1, X2, X3	-							649-77313-802- 20LF	0.534	10
10	1	DS1022-2*20RF11	THT; 2x20-pin 0.1" header, right angled	X5	-							649-68020- 140HLF	1.180	10
11	3	DS1023-2*14S21	THT; 2x13-pin 0.1" receptacle	X4, X6, X8	-				S7082-ND	1.520	1	SSQ-114-01-T-D	1.960	10
12	4	SMAJ18A	DO-214AC	ZD1, ZD2, ZD3, ZD4	2677644	SMAJ18A	0.108	5	SMAJ18A- FDICT-ND	0.350	1	652-SMAJ18A-Q	0.384	1

Not installed														
4	Green LED	0805	LED1, LED4, LED5, LED6											
1	Yellow LED	0805	LED2											
1	Red LED	0805	LED3											
2	BAS316	SOD-323	D1, D2, D5, D6, D7, D8											
1	N.C.	DO-214AA	D7											
4	330R	0805	R3, R6, R7, R8											
1	470R	0805	R9											
1	1K5	0805	R10											
1	N.C.	THT; 8-pin 0.1" header for optional AdxL345 module	X7											

Custom made components														
1	PCB 2-layer 110 x 85 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 and all capacitors are X7R 0805 if not otherwise specified.

#	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	100n	264-4630	C0603C104K4R ACTU	0.035	25	CL10B104KA8NNNC	0.098	100		1	RS	0.035 €	1	0.035
2	1	1n	723-6408	GRM2195C1H1 02JA01D	0.031	100	CL21C102JBCNNNC	0.026	100		1	TME	0.026 €	1	0.026
3	6	BAS316	397-2914	BAS316,115	0.122	50	BAS316,115	0.026	25		6	TME	0.026 €	6	0.159
4	1	TCA9534PWR	814-3997	TCA9535PWR	1.071	10	-				1	Mouser	0.934 €	1	0.934
5	4	RT424005	-				RT424005	1.150	5	4		TME	1.150 €	4	4.600
6	4	2N7002	671-0312	2N7002	1.250	20	2N7002LT1G	0.019	25		4	TME	0.019 €	4	0.077
7	4	100K	223-0691	CRG0805F100K	0.028	50	SMD0805-100K-1%	0.015	100		4	Farnell	0.010 €	4	0.039
8	1	10K	125-1189	CRG0805F10K	0.006	100	RC0805FR-0710K	0.022	100		1	RS	0.006 €	1	0.006
9	3	DS1021-2*10SF11	-				DS1021-2*10SF11	0.165	10	3		TME	0.165 €	3	0.494
10	1	DS1022-2*20RF11	-				DS1022-2*20RF11	0.282	2	1		TME	0.282 €	1	0.282
11	3	DS1023-2*14S21	-				DS1023-2*14S21	0.295	2	3		TME	0.295 €	3	0.885
12	4	SMAJ18A	710-3443	SMAJ18A-E3/61	0.246	25	SMAJ18A-E3/61	0.100	5		4	TME	0.100 €	4	0.400
											11 22	7.94 €			

Not installed															
4	Green LED									4		Farnell	0.000 €	4	0.000
1	Yellow LED									1		Farnell	0.000 €	1	0.000
1	Red LED									1		Farnell	0.000 €	1	0.000
2	BAS316									2		Farnell	0.000 €	2	0.000
1	N.C.									1		Farnell	0.000 €	1	0.000
4	330R									4		Farnell	0.000 €	4	0.000
1	470R									1		Farnell	0.000 €	1	0.000
1	1K5									1		Farnell	0.000 €	1	0.000
1	N.C.									1		Farnell	0.000 €	1	0.000

Custom made componer															
1	PCB 2-layer 110 x 85 mm											ALLPCB	5.600 €	1	5.600
															5.60 €

Total 13.54 €

Farnell / Element14										Digi-Key			Mouser		
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