EEZ DIB PREL6 BOM (r1B4, 2020-12-02)

Project source code at https://github.com/eez-open/dib-prel6

#	Qty	Part name	Package	Reference designator	Farnell / Element14 Code	Farnell / Element14 Part Number	Farnell Unit price €	Farnell MOQ	Digi-Key Part Number	Digi-Key Unit price €	Digi-Key MOQ	Mouser Part Number	Mouser Unit price €	Mouser MOQ
1	4	100n	0603	C1, C4, C5, C7	2522597	C0603C104K4RAC7081	0,011	10	490-4774-1-ND	0,029	100	80-C0603C104M4R	0,007	100
2	1	10n	0805	C10	2896555	VJ0805Y103JXXPW1BC	0,065	10	490-7194-1-ND	0,017	10	710-885012207122	0,036	10
3	2	4u7	0805	C2, C9	2112841	EMK212B7475KG-T	0,163	5	490-14466-1-ND	0,114	10	963-TMK212AB7475MG-T	0,104	10
4	1	EEEFK1V470P		C3	9695850	EEEFK1V470P	0,344	1	PCE3842CT-ND	0,312	10	667-EEE-FK1V470P	0,238	10
5	1	1u	0805	C6	2896566	VJ0805Y105KXXTW1BC	0,084	5	587-1283-1-ND	0,090	10	603-CC805MKX7R7BB105	0,062	10
6	1	2u2	0805	C8	1828829	GRM21BR71C225KA12L	0,198	5	1276-2954-1-ND	0,085	10	80-C0805C225M4RECLR	0,078	10
7	6	BAS316	SOD-323	D1, D2, D3, D4, D5, D6	8734275	BAS316,115	0,193	5	1727-7370-1-ND	0,120	1	771-BAS316-T/R	0,179	1
8	1	STM32F030C6T6		IC1	2393632	STM32F030C6T6	1,350	1	STM32F030C6T6TR	1,360	1	511-STM32F030C6T6	1,360	1
		Option: STM32F031C4T6			2849912	STM32F031C4T6	2,510	1	497-13617-ND	2,200	1	STM32F031C4T6	2,110	1
9	1	74HC1G126GW.125	TSSOP-5	IC2	-				1727-6037-1-ND	0,360	1	771-HC1G126GW125	0,369	1
10	1	M24C32-WMN6P	SOIC-8	IC3	1224413	M24C32-WMN6P	0,212	5	-			511-M24C32-WMN6P	0,210	1
11	1	LP2985-33DBVR	SOT-23-5	IC4	1053660	LP2985A-33DBVTE4 .	0,610	1	296-18476-1-ND	0,540	1	595-LP2985-33DBVR	0,507	1
12	6	RT424005	**THT**; 8A relay	K1, K2, K3, K4, K5, K6	1629052	RT424005	2,640	1	PB1998-ND	3,620	1	655-RT424005	2,820	1
13	6	2N7002	SOT-23	Q1, Q2, Q3, Q4, Q5, Q6	1713825	2N7002K-7	0,148	5	T2N7002AKLMCT-ND	0,126	10	757-T2N7002AKLM	0,113	10
14	1	10K	0805	R1	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
15	6	100K	0805	R2, R3, R4, R5, R6, R7	2447551	MCWR08X1003FTL	0,010	10	RMCF0805FT100KCT-ND	0,024	10	71-CRCW0805100KFKEAC	0,040	10
16	1	DR1206-33R-4/8	1206 resistor array	RN1	1770128	CAY16-330J4LF	0,069	10	CAY16-330J4LFCT-ND	0,090	1	652-CAY16-330J4LF	0,085	1
17	1	DR1206-10K-4/8	1206 resistor array	RN2	1770137	CAY16-103J4LF	0,031	10	CAY16-103J4LFCT-ND	0,058	10	652-CAY16-103J4LF	0,021	10
18	10	ERZE11A431	**THT**, varistor, Ø13mm	VAR1, VAR2, VAR3, VAR4, VAR5, VAR6, VAR7, VAR8, VAR9, VAR10	2291831	ERZE11A431	0,459	10	P16688-ND	0,386	10	667-ERZ-E11A431	0,324	10
19	1	77317-104-28LF	**THT**, 28-pin 0.1" header right angled	X2	-				S2111EC-14-ND	1,030	1	649-77317-104-28LF	1,540	1
20	2	691327310016	**THT**, 16-pin 3.81mm terminal block header, male pins	X3, X4	1793077	MCD 1,5/ 8-G1-3,81	5,770	1	732-691327310016-ND	7,810	1	651-1843130	9,270	1
21	1	MM3Z18VT1G	SOD-323	ZD1	1431193	MM3Z18VT1G	0,109	10	MM3Z18VT1GOSCT-ND	0,103	10	863-MM3Z18VT1G	0,108	10

#	Qty	Part name	RS Components 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	4	100n	393-6952	VJ0603Y104KXJAT	0,069	25	CL10B104KA8NNNC	0,098	100		4	Mouser	0,007 €	4	0,028
2	1	10n	464-6672	08055C103KAT2A	0,026	50	CC0805KRX7R9103	0,027	100		1	Digikey	0,017 €	1	0,017
3	2	4u7	184-3708	TMK212ABJ475KG-T	0,062	50	C0805C475K3RACAUTO	0,242	10		2	RS	0,062 €	2	0,124
4	1	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5		1	TME	0,130 €	1	0,130
5	1	1u	451-5770	C0805C105K4RACTU	0,028	25	CL21B105KOFNNNE	0,010	100		1	TME	0,010 €	1	0,010
6	1	2u2	766-1031	CL21B225KAFNNNF	0,069	100	CL21B225KOFNNNG	0,071	100		1	RS	0,069 €	1	0,069
7	6	BAS316	397-2914	BAS316,115	0,122	50	BAS316,115	0,026	25		6	TME	0,026 €	6	0,159
8	1	STM32F030C6T6		STM32F030C6T6TR	0,972	5	STM32F030C6T6	0,940	4		1	TME	0,940 €	1	0,940
		Option: STM32F031C4T6	192-1080	STM32F031C4T6	2,152	5	STM32F031C4T6	2,050	1						
9	1	74HC1G126GW.125	813-9282	74HC1G126GW,125	0,024	100	74HC1G126GW.125	0,062	10		1	RS	0,024 €	1	0,024
10	1	M24C32-WMN6P	686-2453	M24C32-WMN6P	0,180	25	M24C32-WMN6P	0,165	3		1	TME	0,165 €	1	0,165
11	1	LP2985-33DBVR	660-6733	LP2985-33DBVT	0,737	1	LP2985-33DBVR	0,362	1		1	TME	0,362 €	1	0,362
12	6	RT424005	-				RT424005	1,150	5	6		TME	1,150 €	6	6,900
13	6	2N7002	671-0312	2N7002	1,250	20	2N7002LT1G	0,019	25		6	TME	0,019 €	6	0,115
14	1	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		1	RS	0,002 €	1	0,002
15	6	100K	223-0691	CRG0805F100K	0,028	50	0805S8F1003T5E	0,015	100		6	Farnell	0,010 €	6	0,058
16	1	DR1206-33R-4/8	522-5670	CAY16-330J4LF	0,004	50	4D03WGJ0330T	0,009	100		1	RS	0,004 €	1	0,004
17	1	DR1206-10K-4/8	522-5585	CAY16-103J4LF	0,012	50	4D03WGJ0103T	0,011	100		1	TME	0,011 €	1	0,011
18	10	ERZE11A431	785-8904	ERZE11A431	0,265	25	V275LA20AP	0,180	5	10		TME	0,180 €	10	1,800
19	1	77317-104-28LF	-				-			1		Digikey	1,030 €	1	1,030
20	2	691327310016	191-1724	691327310016	7,900	1	-			2		Farnell	5,770 €	2	11,540
21	1	MM3Z18VT1G	802-4574	MM3Z18VT1G	0,038	200	MM3Z18VT1G	0,025	25		1	TME	0,025 €	1	0,025
										19	35				23,51 €

# Qty	Part name	Package	Reference designator	Code	Farnell / Element14 Part Number	Unit price €	MOQ	Digi-Key Part Number	Unit price €	MOQ	Mouser Part Number	Unit price €	MOQ
Not installed													
1	N.C.		X1										
Related parts and accessories													
2	PMB-1	PCB bracket; polyamide	KK1, KK2	-				-			-		
4	TJ0831530000G	8-pin 3.81mm pluggable terminal block		2579776	EBK-08-B	2,400	1	609-3803-ND	1,760	1	649-220004-D081B01LF	1,530	1
Custom made components													
1	PCB 2-layer 146 x 95 mm			-									

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.

#	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 €
		Not installed													
	1	N.C.									1	Farnell	0,000 €	1	0,000
		Related parts and acces													
	2	PMB-1	-				PMB-1	0,072	10			TME	0,072 €	2	0,145
	4	TJ0831530000G	-				15EDGK-3.81-08P-14-00A(H)	1,430	1			TME	1,430 €	4	5,720
															5,86 €
		Custom made componer													
	1	PCB 2-layer 146 x 95 mm										JLCPCB	6,244 €	1	6,244
															6,24 €

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Total   **35,62 €**

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