EEZ DIB MUX14D BOM (r1B3, 2021-03-28)
Project source code at https://github.com/eez-open/dib-prel6

#	Qty	Part name	Package	Reference designator	Farnell / Element14 Code	Part Number	Unit price €	MOQ	Digi-Key Part Number	Unit price €	MOQ	Mouser Part Number	Unit price €	MOQ
1	1	EEEFK1V470P		C1	9695850	EEEFK1V470P	0,344	1	PCE3842CT-ND	0,312	10	667-EEE-FK1V470P	0,238	10
2	4	100n	0603	C2, C6, C7, C10	2522597	C0603C104K4RAC7081	0,011	10	490-4774-1-ND	0,029	100	80-C0603C104M4R	0,007	100
3	4	2u2	0805	C3, C5, C8, C9	1828829	GRM21BR71C225KA12L	0,198	5	1276-2954-1-ND	0,085	10	80-C0805C225M4RECLR	0,078	10
4	1	10n	0805	C4	2896555	VJ0805Y103JXXPW1BC	0,065	10	490-7194-1-ND	0,017	10	710-885012207122	0,036	10
5	1	BAS316	SOD-323	D1	8734275	BAS316,115	0,193	5	1727-7370-1-ND	0,120	1	771-BAS316-T/R	0,179	1
6	1	M24C32-WMN6P	SOIC-8	IC1	1224413	M24C32-WMN6P	0,212	5	-			511-M24C32-WMN6P	0,210	1
7	1	74HC1G126GW.125	TSSOP-5	IC2	-				1727-6037-1-ND	0,360	1	771-HC1G126GW125	0,369	1
8	1	LP2985-33DBVR	SOT-23-5	IC3	1053660	LP2985A-33DBVTE4 .	0,610	1	296-18476-1-ND	0,540	1	595-LP2985-33DBVR	0,507	1
9	1	STM32F030C6T6	LQFP-48	IC4	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		STM32F031C4T6	2,110	1
10	2	ULN2803ADWR	SOIC-18	IC5, IC6	3125103	ULN2803ADWR	1,120	5	296-15777-1-ND	1,090	1	595-ULN2803ADWR	1,090	1
11	17	3572.1220.051	**THT**; reed relay	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17	-				-			-		
12	1	2N7002	SOT-23	Q1	1713825	2N7002K-7	0,148	5	T2N7002AKLMCT-ND	0,126	10	757-T2N7002AKLM	0,113	10
13	1	10K	0805	R1	9237755	RC0805FR-0710KL	0,022	10	311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
14	1	100K	0805	R2	2447551	MCWR08X1003FTL	0,010	10	RMCF0805FT100KCT-ND	0,024	10	71-CRCW0805100KFKEAC	0,040	10
15	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
16	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
17	2	DS1014-10RF1B	**THT**, 10-pin 2mm IDC, right angle	X1, X3	-				2BHR-10-HUA	0,650	1	-		
18	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
19	2	691327310016	**THT**, 16-pin 3.81mm terminal block header, male pins	X5, X6	1793077	MCD 1,5/ 8-G1-3,81	5,770	1	732-691327310016-ND	7,810	1	651-1843130	9,270	1
20	3	MM3Z18VT1G	SOD-323	ZD1, ZD2, ZD3	1431193	MM3Z18VT1G	0,109	10	MM3Z18VT1GOSCT-ND	0,103	10	863-MM3Z18VT1G	0,108	10

Not installed

	Qty	Part name	Package	Reference designator										
	1	N.C.		X4										

#	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	1	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5		1	TME	0,130 €	1	0,130
2	4	100n	393-6952	VJ0603Y104KXJAT	0,069	25	CL10B104KA8NNNC	0,098	100		4	Mouser	0,007 €	4	0,028
3	4	2u2	766-1031	CL21B225KAFNNNF	0,069	100	CL21B225KOFNNNG	0,071	100		4	RS	0,069 €	4	0,276
4	1	10n	464-6672	08055C103KAT2A	0,026	50	CC0805KRX7R9103	0,027	100		1	Digikey	0,017 €	1	0,017
5	1	BAS316	397-2914	BAS316,115	0,122	50	BAS316,115	0,026	25		1	TME	0,026 €	1	0,026
6	1	M24C32-WMN6P	686-2453	M24C32-WMN6P	0,180	25	M24C32-WMN6P	0,165	3		1	TME	0,165 €	1	0,165
7	1	74HC1G126GW.125	813-9282	74HC1G126GW,125	0,024	100	74HC1G126GW.125	0,062	10		1	RS	0,024 €	1	0,024
8	1	LP2985-33DBVR	660-6733	LP2985-33DBVT	0,737	1	LP2985-33DBVR	0,362	1		1	TME	0,362 €	1	0,362
9	1	STM32F030C6T6	192-0993	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						
10	2	ULN2803ADWR	646-6311	ULN2803ADW	1,336	5	ULN2803ADWR	0,874	1		2	TME	0,874 €	2	1,748
11	17	3572.1220.051	-				3572.1220.051	1,540	14	17		TME	1,540 €	17	26,180
12	1	2N7002	671-0312	2N7002	1,250	20	2N7002LT1G	0,019	25		1	TME	0,019 €	1	0,019
13	1	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		1	RS	0,002 €	1	0,002
14	1	100K	223-0691	CRG0805F100K	0,028	50	0805S8F1003T5E	0,015	100		1	Farnell	0,010 €	1	0,010
15	1	DR1206-33R-4/8	522-5670	CAY16-330J4LF	0,004	50	4D03WGJ0330T	0,009	100		1	RS	0,004 €	1	0,004
16	1	DR1206-10K-4/8	522-5585	CAY16-103J4LF	0,012	50	4D03WGJ0103T	0,011	100		1	TME	0,011 €	1	0,011
17	2	DS1014-10RF1B	-				DS1014-10RF1B	0,220	3	2		TME	0,220 €	2	0,440
18	1	77317-104-28LF	-				-			1		Digikey	1,030 €	1	1,030
19	2	691327310016	191-1724	691327310016	7,900	1	-			2		Farnell	5,770 €	2	11,540
20	3	MM3Z18VT1G	802-4574	MM3Z18VT1G	0,038	200	MM3Z18VT1G	0,025	25		3	TME	0,025 €	3	0,076
										22	25				43,03 €

Not installed

| | 1 | N.C. | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |

# Qty	Part name	Package	Reference designator	Farnell / Element14				Digi-Key			Mouser		
				Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
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 131 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 | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
			Code	Part Number	Unit price €	MOQ		Code / Part Number	Unit price €	MOQ			Best Supplier	Lowest unit price €	Order Qty	Line Cost €
		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 131 x 95 mm											JLCPCB	4,218 €	1	4,218
																4,22 €

Total   **53,11 €**