

**EEZ DIB SMX46 BOM (r1B2, 2020-09-20)**  
Project source code at <https://github.com/eez-open/dib-pre16>

#	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	10	100n		0603	C1, C4, C5, C7, C12, C13, C14, C15, C17, C18	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	100p		C0G, 0805	C11, C16	2896861	C0805C101JAGAC TU	0,023	10		399-15000-1-ND	0,019	10	80-C0805C101K5G	0,032	10
4	3	2u2		0805	C2, C6, C8, C9	1828829	GRM21BR71C225KA12L	0,198	5		1276-2954-1-ND	0,085	10	80-C0805C225M4RECLR	0,078	10
5	1	EEEFK1V470P			C3	9695850	EEEFK1V470P	0,344	1		PCE3842CT-ND	0,312	10	667-EEE-FK1V470P	0,238	10
6	25	BAS316	SOD-323		D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25	8734275	BAS316,115	0,193	5		1727-7370-1-ND	0,120	1	771-BAS316-T/R	0,179	1
7	1	STM32F030C6T6	LQFP-48		IC1	2393632	STM32F030C6T6	1,350	1		STM32F030C6T6TR	1,360	1	511-STM32F030C6T6	1,360	1
8	1	74HC1G126GW.125	TSSOP-5		IC2	-					1727-6037-1-ND	0,360	1	771-HC1G126GW125	0,369	1
9	1	M24C32-WMN6P	SOIC-8		IC3	1224413	M24C32-WMN6P	0,212	5		-			511-M24C32-WMN6P	0,210	1
10	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
11	1	74HC2G04GW,125			IC5	2777732	74HC2G04GW,125	0,283	5		1727-6045-1-ND	0,274	10	771-HC2G04GW125	0,248	10
12	1	OPA2990IDR	SOIC-8		IC6	-					296-53506-1-ND	1,210	1	595-OPA2990IDR	1,360	1
13	24	FTR-C1GA012G-B05			K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K20, K21, K22, K23, K24, K2	-					-			817-FTR-C1GA012GB05	3,320	10
14	1	RT424005	THT; 8A relay		K19	1629052	RT424005	2,640	1		PB1998-ND	3,620	1	655-RT424005	2,820	1
15	25	2N7002	SOT-23		Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25	1713825	2N7002K-7	0,148	5		T2N7002AKLMCT-ND	0,126	10	757-T2N7002AKLM	0,113	10
16	7	10K		0805	R1, R4, R6, R9, R10, R12, R15	9237755	RC0805FR-0710KL	0,022	10		311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
17	2	180R		0805	R2, R8, R14	2447583	MCWR08X1800FTL	0,007	10		A126343CT-ND	0,038	10	652-CR0805FX-1800ELF	0,030	10
18	1	47K		0805	R3	2447664	MCWR08X4702FTL	0,009	10		RHM47KKCT-ND	0,036	10	603-RC0805FR-0747KL	0,014	10
19	2	4K7		0805	R5, R11	2861530	CRGCQ0805F4K7	0,012	10		311-4.70KCRCT-ND	0,040	10	603-RC0805FR-074K7L	0,027	10
20	2	47R		0805	R7, R13	2861899	CRGCQ0805J47R	0,007	10		P47.0CCT-ND	0,069	10	279-CRGCQ0805F47R	0,028	10
21	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

#	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	10	100n	393-6952	VJ0603Y104KXJ AT	0,069	25	CL10B104KA8NNNC	0,098	100		10	Mouser	0,007 €	10	0,070
2	1	10n	464-6672	08055C103KAT 2A	0,026	50	CC0805KRX7R9103	0,027	100		1	Digikey	0,017 €	1	0,017
3	2	100p	461-3997	CC0805JRNPO9 BN101	0,030	50	CL21C101JBANNNC	0,026	100		2	Digikey	0,019 €	2	0,038
4	3	2u2	766-1031	CL21B225KAFN NNF	0,069	100	CL21B225KOFNNNG	0,071	100		3	RS	0,069 €	3	0,207
5	1	EEEFK1V470P	537-0657	EEEFK1V470P	0,394	5	EEEFK1V470P	0,130	5		1	TME	0,130 €	1	0,130
6	25	BAS316	397-2914	BAS316,115	0,122	50	BAS316,115	0,026	25		25	TME	0,026 €	25	0,661
7	1	STM32F030C6T6	192-0993	STM32F030C6T 6TR	0,972	5	STM32F030C6T6	0,940	4		1	TME	0,940 €	1	0,940
8	1	74HC1G126GW.125	813-9282	74HC1G126GW, 125	0,024	100	74HC1G126GW.125	0,062	10		1	RS	0,024 €	1	0,024
9	1	M24C32-WMN6P	686-2453	M24C32- WMN6P	0,180	25	M24C32-WMN6P	0,165	3		1	TME	0,165 €	1	0,165
10	1	LP2985-33DBVR	660-6733	LP2985-33DBVT	0,737	1	LP2985-33DBVR	0,362	1		1	TME	0,362 €	1	0,362
11	1	74HC2G04GW,125	153-2919	74HC2G04GW,1 25	0,235	50	74HC2G04GW.125	0,138	5		1	TME	0,138 €	1	0,138
12	1	OPA2990IDR	-				-				1	Digikey	1,210 €	1	1,210
13	24	FTR-C1GA012G-B05	195-8097	FTR-C1GA012G	3,200	20	FTR-C1GA012G-B05	0,840	25		24	TME	0,840 €	24	20,160
14	1	RT424005	-				RT424005	1,150	5		1	TME	1,150 €	1	1,150
15	25	2N7002	671-0312	2N7002	1,250	20	2N7002LT1G	0,019	25		25	TME	0,019 €	25	0,480
16	7	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		7	RS	0,002 €	7	0,014
17	2	180R	223-0326	CRG0805F180R	0,090	50	CQ05S8F1800T5E	0,026	100		2	Farnell	0,007 €	2	0,014
18	1	47K	679-1434	CRCW080547K 0FKEA	0,036	50	RC0805FR-0747K	0,022	100		1	Farnell	0,009 €	1	0,009
19	2	4K7	223-0528	CRG0805F4K7	0,023	50	0805S8F4701T5E	0,023	100		2	Farnell	0,012 €	2	0,023
20	2	47R	223-0253	CRG0805F47R	0,016	50	SMD0805-47R-1%	0,022	100		2	Farnell	0,007 €	2	0,013
21	1	DR1206-33R-4/8	522-5670	CAY16-330J4LF	0,004	50	4D03WJG0330T	0,009	100		1	RS	0,004 €	1	0,004

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22	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
23	6	DR1206-47K-4/8	1206 resistor array	RN3, RN4, RN5, RN6, RN7, RN8	2787793	CAY16-4702F4LF	0,178	10	CAY16-473J4LF	0,080	10	652-CAY16-473J4LF	0,016	10
24	2	PESD12VL1BA.115		TVS1, TVS2	8737363	PESD12VL1BA, 115	0,365	5	1727-3808-1-ND	0,320	10	771-PESD12VL1BA-T/R	0,296	10
25	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
26	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
27	2	DS1014-10RF1B	THT, 10-pin 2mm IDC, right angle	X6, X7	-				2BHR-10-HUA	0,650	1	-		
28	5	MM3Z18VT1G	SOD-323	ZD1, ZD2, ZD3, ZD4, ZD5	1431193	MM3Z18VT1G	0,109	10	MM3Z18VT1GO SCT-ND	0,103	10	863-MM3Z18VT1G	0,108	10

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.

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	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 €	
22	1	DR1206-10K-4/8	522-5585	CAY16-103J4LF	0,012	50	4D03WGJ0103T	0,011	100		1	TME	0,011 €	1	0,011	
23	6	DR1206-47K-4/8	522-5759	CAY16-473J4LF	0,020	50	4D03WGJ0473T	0,013	100		6	TME	0,013 €	6	0,078	
24	2	PESD12VL1BA.115	508-024	PESD12VL1BA, 115	0,294	20	PESD12VL1BA.115	0,126	5		2	TME	0,126 €	2	0,252	
25	1	77317-104-28LF	-				-			1		Digikey	1,030 €	1	1,030	
26	2	691327310016	191-1724	691327310016	7,900	1	-			2		Farnell	5,770 €	2	11,540	
27	2	DS1014-10RF1B	-				DS1014-10RF1B	0,220	3	2		TME	0,220 €	2	0,440	
28	5	MM3Z18VT1G	802-4574	MM3Z18VT1G	0,038	200	MM3Z18VT1G	0,025	25		5	TME	0,025 €	5	0,126	
										6	126	39,31 €				
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 €						
Total														51,41 €		