

EEZ DIB SMX46 BOM (r1B2, 2020-09-19)
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	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-CC805MKX7R7B B105	0,062	10
6	3	2u2	0805	C2, C8, C9	1828829	GRM21BR71C225 KA12L	0,198	5			1276-2954-1-ND	0,085	10	80-C0805C225M4R ECLR	0,078	10
7	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
8	1	STM32F030C6T6	LQFP-48	IC1	2393632	STM32F030C6T6	1,350	1			STM32F030C6T6TR	1,360	1	511-STM32F030C6T6	1,360	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	1	74HC2G04GW,125		IC5	2777732	74HC2G04GW,125	0,283	5			1727-6045-1-ND	0,274	10	771-HC2G04GW125	0,248	10
13	1	OPA2990IDR	SOIC-8	IC6	-						296-53506-1-ND	1,210	1	595-OPA2990IDR	1,360	1
14	1	RT424005	THT; 8A relay	K_PWR	1629052	RT424005	2,640	1			PB1998-ND	3,620	1	655-RT424005	2,820	1
15	24	FTR-C1GA012G-B05		K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24	-						-			817-FTR-C1GA012GB05	3,320	10
16	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
17	7	10K	0805	R1, R3, R5, R8, R9, R11, R14	9237755	RC0805FR-0710KL	0,022	10			311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10
18	1	47K	0805	R2	2447664	MCWR08X4702FT L	0,009	10			RHM47KKCT-ND	0,036	10	603-RC0805FR-0747KL	0,014	10
19	2	4K7	0805	R4, R10	2861530	CRGCQ0805F4K7	0,012	10			311-4.70KCRCT-ND	0,040	10	603-RC0805FR-074K7L	0,027	10
20	2	47R	0805	R6, R12	2861899	CRGCQ0805J47R	0,007	10			P47.0CCT-ND	0,069	10	279-CRGCQ0805F47R	0,028	10

#	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	CC0805JRNP09 BN101	0,030	50	CL21C101JBANNNC	0,026	100		2	Digikey	0,019 €	2	0,038
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	C0805C105K4R ACTU	0,028	25	CL21B105KOFNNNE	0,010	100		1	TME	0,010 €	1	0,010
6	3	2u2	766-1031	CL21B225KAFN NNF	0,069	100	CL21B225KOFNNNG	0,071	100		3	RS	0,069 €	3	0,207
7	25	BAS316	397-2914	BAS316,115	0,122	50	BAS316,115	0,026	25		25	TME	0,026 €	25	0,661
8	1	STM32F030C6T6	192-0993	STM32F030C6T 6TR	0,972	5	STM32F030C6T6	0,940	4		1	TME	0,940 €	1	0,940
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	1	74HC2G04GW,125	153-2919	74HC2G04GW,1 25	0,235	50	74HC2G04GW.125	0,138	5		1	TME	0,138 €	1	0,138
13	1	OPA2990IDR	-				-				1	Digikey	1,210 €	1	1,210
14	1	RT424005	-				RT424005	1,150	5	1		TME	1,150 €	1	1,150
15	24	FTR-C1GA012G-B05	195-8097	FTR-C1GA012G	3,200	20	FTR-C1GA012G-B05	0,840	25		24	TME	0,840 €	24	20,160
16	25	2N7002	671-0312	2N7002	1,250	20	2N7002LT1G	0,019	25		25	TME	0,019 €	25	0,480
17	7	10K	125-1189	CRG0805F10K	0,002	100	RC0805FR-0710K	0,022	100		7	RS	0,002 €	7	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

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						Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
21	2	180R	0805	R7, R13	2447583	MCWR08X1800FT L	0,007	10	A126343CT-ND	0,038	10	652-CR0805FX- 1800ELF	0,030	10
22	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
23	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
24	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
25	2	PESD12VL1BA.115		TVS1, TVS2	8737363	PESD12VL1BA,11 5	0,365	5	1727-3808-1-ND	0,320	10	771- PESD12VL1BA- T/R	0,296	10
26	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
27	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
28	25	MM3Z18VT1G	SOD-323	ZD1, ZD2, ZD3, ZD4, ZD5, ZD6, ZD7, ZD8, ZD9, ZD10, ZD11, ZD12, ZD13, ZD14, ZD15, ZD16, ZD17, ZD18, ZD19, ZD20, ZD21, ZD22, ZD23, ZD24, ZD25	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 €	
21	2	180R	223-0326	CRG0805F180R	0,090	50	CQ05S8F1800T5E	0,026	100		2	Farnell	0,007 €	2	0,014	
22	1	DR1206-33R-4/8	522-5670	CAY16-330J4LF	0,004	50	4D03WGJ0330T	0,009	100		1	RS	0,004 €	1	0,004	
23	1	DR1206-10K-4/8	522-5585	CAY16-103J4LF	0,012	50	4D03WGJ0103T	0,011	100		1	TME	0,011 €	1	0,011	
24	6	DR1206-47K-4/8	522-5759	CAY16-473J4LF	0,020	50	4D03WGJ0473T	0,013	100		6	TME	0,013 €	6	0,078	
25	2	PESD12VL1BA.115	508-024	PESD12VL1BA, 115	0,294	20	PESD12VL1BA.115	0,126	5		2	TME	0,126 €	2	0,252	
26	1	77317-104-28LF	-				-			1		Digikey	1,030 €	1	1,030	
27	2	691327310016	191-1724	691327310016	7,900	1	-			2		Farnell	5,770 €	2	11,540	
28	25	MM3Z18VT1G	802-4574	MM3Z18VT1G	0,038	200	MM3Z18VT1G	0,025	25		25	TME	0,025 €	25	0,630	
										4	122				39,38 €	
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														51,49 €		