

EEZ XMOS evaluation board BOM (r1B4, 2018-01-22)

Project source code at <https://github.com/eez-open>

#	Qty	Part name	Package	Reference designator	Code	Farnell / Element14			Digi-Key		
						Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ
1	3	1u	0805	C1, C13, C58							
2	2	120p	0805	C14, C20							
3	3	10n	0805	C15, C16, C18							
4	1	4u7	1206	C2							
5	56	100n	0603	C3, C6, C7, C10, C11, C12, C17, C19, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C33, C34, C35, C36, C37, C38, C39, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C57, C63, C65, C66, C67, C68, C69, C70, C72, C73, C74, C75, C76, C78, C80, C81							
6	1	2u2	0805	C32							
7	3	EEEFK1V220R	22uF 35VDC, 5x5.8mm	C4, C8, C40	9695834	EEEFK1V220R	0,241 €	1			
8	3	EEEFK1C470UR	47uF 35VDC, 5x5.8mm	C5, C9, C41	9695664	EEEFK1C470U	0,241 €	1			
9	2	10u	1210	C56, C77							
10	2	470n	0805	C59, C62							
11	2	4n7	0805	C60, C61							
12	1	220n	0805	C64							
13	1	10u	1206	C71							
14	1	EECS0HD334H	Supercap 10mm	C79	1751930	EECS0HD334H	1,820 €	1			
15	1	???	SOD123	D1							
16	3	BAS316	SOD323	D2, D3, D4							
17	1	SM050-16 (500mA)	Fuse, 1210	F1							
18	3	60R@100MHz	Ferrite bead, 0603	FB1, FB2, FB3							
19	1	TPS61169DCKR		IC1	2542731	TPS61169DCKR	0,917 €	1			
20	1	IS42S16400J	TSOP-II-54	IC10	2253831	IS42S16400J-7TLI	1,950 €	1			
21	2	SN74CBTLV3257		IC11, IC14	1872789	SN74CBTLV3257PW R	0,801 €	1			
22	1	SN74LVC1G02DBVR		IC12	1287579	SN74LVC1G02DBVR	0,284 €	5			
23	1	AT25SF041-SSHDT	Serial flash, SOIC8	IC13	-						
24	1	TPS2051BDBVR		IC15	2296067	TPS2051BDBVR	1,180 €	1			
25	1	TPD2E001DZDR		IC16	2335446	TPD2E001DZDR	0,506 €	5			
26	1	XE216-512-TQ128-C20		IC18	2499221	XE216-512-TQ128-C20	17,670 €	1			
27	2	TPD4E001DRLR		IC19, IC20	1611469	TPD4E001DRLR	0,570 €	5			
28	3	TPS561208DDCR		IC2, IC4, IC17	2766883	TPS561208DDCT	1,010 €	1			
29	2	74LVC1G07SE-7	SC70	IC21, IC22	1845213	74LVC1G07SE-7	1,530 €	1			
30	1	TPA6205A1DGN		IC23	1697151	TPA6205A1DGN	1,140 €	1			
31	1	DP83848CVV/NOPB		IC24	1685784	DP83848CVV/NOPB	5,460 €	1			
32	1	M95256-WMN6P	SOIC8	IC25	1099712	M95256-WMN6P	0,321 €	1			
33	1	PCA21125T/Q900/1,1	TSSOP14	IC27	2400445	PCA21125T/Q900/1,1	1,760 €	1			
34	1	MCP23S17-E/SS		IC28	1467675	MCP23S17-E/SS	1,190 €	1			

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35	3	74VHC595MTC	IC3, IC5, IC26	2453164	74VHC595MT	0,447 €	5
36	1	TPS3808G33DBVR	IC6	1703467	TPS3808G33DBVR	1,590 €	1
37	1	AR1021-I/SS	IC7	2218568	AR1021-I/SS	1,710 €	1
38	1	TPS3808G09DBVR	IC8	2764653	TPS3808G09DBV	1,930 €	1
39	1	74AUP1G74DC.125	IC9	2445023	74AUP1G74DC.125	0,424 €	5
40	1	678038020	USB AB mini socket	J1			
41	1	5033981892	SD Micro; push-push	J2			
42	1	DLG-0403-4R7	Inductor 4.7uH, 0403	L1			
43	3	DLG-0403-2R2	Inductor 2.2uH, 0403	L2, L3, L4			
44	1	PCA-6-LA-40-HL-3	FFC horizontal, 40-pin bottom contacts	LCD1			
45	5	HSMY-C170	LED0805	LED1, LED2, LED3, PWR_3V3, SPEED			
46	2	MOCD217M		OK1, OK2			
47	1	IRLML2246TRPBF		Q1			
48	2	10R	1206	R1, R3			
49	7	47K	0805	R10, R12, R19, R20, R21, R26, R37			
50	3	20K	0805	R11, R32, R38			
51	1	10K	1206	R13			
52	1	3K3	0805	R17			
53	1	4K7	0805	R18			
54	2	0R	0805	R2, R67			
55	1	43R2	0805	R22			
56	1	56K	0805	R23			
57	6	33R	0603	R25, R27, R28, R29, R30, R39			
58	1	4R7	0805	R31			
59	4	1K	0805	R33, R34, R65, R66			
60	1	34K	0805	R4			
61	4	49R9	0805	R40, R41, R44, R47			
62	1	22R	0805	R42			
63	5	2K2	0805	R43, R46, R48, R51, R52			
64	5	180R	0805	R5, R45, R49, R50, R54			
65	1	4K87	0603	R53			
66	8	470R	0805	R55, R56, R57, R58, R59, R60, R63, R64			
67	8	10K	0805	R6, R7, R14, R15, R16, R24, R35, R36			
68	2	220R	0805	R61, R62			
69	1	5K1	0805	R8			
70	1	16K	0805	R9			
71	1	LD-BZEN-0803	Buzzer	SP1			
72	1	1301.9316	Reset switch	SW1			
73	1	FC68149	DC input plug, 5,5/2,5mm	X1			
74	1	SSW-105-02-S-D		X2			
75	1	TSW-104-02-S-D_NN		X3			

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76	1	TSW-103-07-F-D	X4
77	1	ZL231-20KG 20-pin IDC right angle	X5
78	1	22-23-2021	X6
79	1	LMJTAB881243M-L RJ45 Ethernet jack	X7
80	1	SSW-107-02-S-D	X8
81	1	CFPS-73-24M Xtal oscillator	XO1
82	1	CFPS-73-25M Xtal oscillator	XO2
83	1	XTAL016178- 85SMX RTC xtal	Y1
84	3	P4SMAJ16A-DIO	ZD3, ZD7, ZD8
85	3	P4SMAJ5.0A-DIO	ZD4, ZD5, ZD6
86	1	RFE43BH-AIW-DNS 4.3" 480x272 LCD with resistive touch screen	

Optional / not installed

1	ZL262-10DG	ETH_W5500_MODULE	MOD1
1	PCA-6G-20-HL-3 or 52746-207	FFC horizontal, 20-pin bottom contacts	X9
1	BZX384-B30.115	SOD323	ZD1
1	???	SOD323	ZD2

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Mouser			RS Components				TME					Price calculation for 1 set			
Part Number	Unit price €	MOQ	Code	Part Number	Unit price €	MOQ	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
											3	Farnell	0,000 €	1	0,000 €
											2	Farnell	0,000 €	1	0,000 €
											3	Farnell	0,000 €	1	0,000 €
											1	Farnell	0,000 €	1	0,000 €
											56	Farnell	0,000 €	1	0,000 €
											1	Farnell	0,000 €	1	0,000 €
							EEEFK1V220R	0,126 €	5		3	TME	0,126 €	1	0,126 €
							EEEFK1C470UR	0,173 €	5		3	TME	0,173 €	1	0,173 €
											2	Farnell	0,000 €	1	0,000 €
											2	Farnell	0,000 €	1	0,000 €
											2	Farnell	0,000 €	1	0,000 €
											1	Farnell	0,000 €	1	0,000 €
											1	Farnell	0,000 €	1	0,000 €
							EECS0HD334H	0,950 €	1	1	1	TME	0,950 €	1	0,950 €
											1	Farnell	0,000 €	1	0,000 €
											3	Farnell	0,000 €	1	0,000 €
							SM050-16	0,080 €	10		1	TME	0,080 €	1	0,080 €
							LCBA-600	0,025 €	25		3	TME	0,025 €	1	0,025 €
											1	Farnell	0,917 €	1	0,917 €
							IS42S16400J-7TLI	3,150 €	1		1	Farnell	1,950 €	1	1,950 €
											2	Farnell	0,801 €	1	0,801 €
											1	Farnell	0,284 €	1	0,284 €
							AT25SF041-SSHDT	0,280 €	3		1	TME	0,280 €	1	0,280 €
											1	Farnell	1,180 €	1	1,180 €
											1	Farnell	0,506 €	1	0,506 €
											1	Farnell	17,670 €	1	17,670 €
											2	Farnell	0,570 €	1	0,570 €
											3	Farnell	1,010 €	1	1,010 €
							74LVC1G07SE-7	0,048 €	10		2	TME	0,048 €	1	0,048 €
											1	Farnell	1,140 €	1	1,140 €
											1	Farnell	5,460 €	1	5,460 €
							M95256-WMN6P	0,550 €	1		1	Farnell	0,321 €	1	0,321 €
											1	Farnell	1,760 €	1	1,760 €
							MCP23S17-E/SS	1,130 €	1		1	TME	1,130 €	1	1,130 €

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				3	Farnell	0,447 €	1	0,447 €
				1	Farnell	1,590 €	1	1,590 €
	AR1021-I/SS	2,060 €	1	1	Farnell	1,710 €	1	1,710 €
				1	Farnell	1,930 €	1	1,930 €
	74AUP1G74DC.12	0,323 €	3	1	TME	0,323 €	1	0,323 €
	MX-67803-8020	0,610 €	1	1	TME	0,610 €	1	0,610 €
	MX-503398-1892	1,430 €	1	1	TME	1,430 €	1	1,430 €
	DLG-0403-4R7	0,122 €	10	1	TME	0,122 €	1	0,122 €
	DLG-0403-2R2	0,122 €	10	3	TME	0,122 €	1	0,122 €
	PCA-6-LA-40-HL-3	0,650 €		1	TME	0,650 €	1	0,650 €
				5	Farnell	0,000 €	1	0,000 €
				2	Farnell	0,000 €	1	0,000 €
	IRLML2246TRPBF	0,115 €	5	1	TME	0,115 €	1	0,115 €
				2	Farnell	0,000 €	1	0,000 €
				7	Farnell	0,000 €	1	0,000 €
				3	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				2	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				6	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				4	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				4	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				5	Farnell	0,000 €	1	0,000 €
				5	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				8	Farnell	0,000 €	1	0,000 €
				8	Farnell	0,000 €	1	0,000 €
				2	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €
	LD-BZEN-0803	0,696 €	10	1	TME	0,696 €	1	0,696 €
	1301.9316	0,230 €	10	1	TME	0,230 €	1	0,230 €
	FC68149	0,521 €	1	1	TME	0,521 €	1	0,521 €
				1	Farnell	0,000 €	1	0,000 €
				1	Farnell	0,000 €	1	0,000 €

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				1	Farnell	0,000 €	1	0,000 €	
	ZL231-20KG	0,271 €	2	1	TME	0,271 €	1	0,271 €	
				1	Farnell	0,000 €	1	0,000 €	
	LMJTAB881243M-L	3,170 €	1	1	TME	3,170 €	1	3,170 €	
				1	Farnell	0,000 €	1	0,000 €	
	CFPS-73-24M	2,460 €	1	1	TME	2,460 €	1	2,460 €	
	CFPS-73-25M	2,460 €	1	1	TME	2,460 €	1	2,460 €	
				1	Farnell	0,000 €	1	0,000 €	
				3	Farnell	0,000 €	1	0,000 €	
				3	Farnell	0,000 €	1	0,000 €	
	RFE43BH-AIW-DNS	24,810 €	1	-	-	TME	24,810 €	1	24,810 €
Total components				10	210		Total	80,048 €	
