

# CMN2015-1 BOM (Bill of materials) sheet

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This is the BOM sheet of CMN2015-1 which is the first board computer design that the CHIRIMEN Open Hardware project developed.

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Item	Quantity	Reference	Part	Footprint	Voltage or wattage	Accuracy (tolerance)	Manufacturer	Parts Model Number
1	1	BT1	3V6_RTC_BAT	BATTERY/SMD	-		SEIKO	HB414-IV01E
2	2	CN1,CN2	P18/2_54	HEAD18	-		-	-
3	15	C6,C30,C34,C35,C48,C53, C97,C116,C119,C175,C183, C228,C241,C284,C649	10uF	C0805	10V	+/-10%	Samsung	CL21A106KPFNNNE
4	66	C32,C67,C68,C69,C80,C85, C86,C87,C88,C89,C90,C91, C92,C93,C94,C95,C99,C100, C101,C102,C103,C104,C105, C106,C112,C120,C121,C122, C129,C130,C131,C132,C133, C136,C137,C138,C139,C140, C148,C149,C150,C151,C152, C153,C206,C211,C218,C219, C230,C231,C233,C242,C252, C254,C258,C267,C283,C285, C304,C330,C343,C344,C345, C353,C356,C366	104	C0402	16V	+/-10%		CL05A104KO5NNNC
5	7	C33,C66,C117,C189,C215, C245,C646	22uF	C0805	6.3V	+/-20%		CL21A226MQFNNNE
6	19	C36,C38,C39,C40,C42,C43, C44,C45,C46,C47,C49,C50, C60,C82,C118,C134,C135, C144,C648	4.7uF	C0603	10V	+/-10%		CL10A475KP8NNNC
7	2	C57,C58	12pF	C0402	50V	+/-5%		CL05C120JB5NNNC
8	8	C59,C65,C178,C232,C372, C373,C374,C375	1uF	C0402	10V	+/-10%		CL05A105KP5NNNC
9	6	C61,C96,C108,C109,C110, C111	1nF	C0402	50V	+/-10%		CL05B102KB5NNNC
10	2	C70,C71	102	C0402	50V	+/-10%		CL05B102KB5NNNC
11	13	C72,C76,C77,C78,C79,C83, C84,C98,C107,C146,C147, C224,C229	105	C0402	10V	+/-10%		CL05A105KP5NNNC
12	2	C73,C81	10nF	C0402	50V	+/-10%		CL05B103KB5NNNC
13	2	C74,C75	8pF	C0402	50V	+/-0.5PF		CL05C080CB5NNNC
14	1	C115	22nF	C0402	16V	+/-10%		CL05B223KO5NNNC

15	2	C168,C190	100pF	C0402	50V	+-10%		CL05C101JB5NNNC
16	1	C181	NC	C0402				
17	1	C298	22pF	C0402	50V	+-5%		CL05C220JB5NNNC
18	4	C354,C357,C365,C647	2.2uF	C0603	10V	+-10%		CL10A225KP8NNNC
19	1	D3	1N4148	SOD323			ON Semiconductor	IY0B4L0731S038
20	1	D4	NC	SOT-23				
21	1	D5	BAT54C	SOT-23			CJ	BAT54C
22	1	D6	ZD5.6V	SOD323			CJ	BZT52C5V6S
23	1	D9	NC/1N5819	SOD123			DiodesZetex	1N5819HW-7-F
24	1	D10	1N5819	SOD123			DiodesZetex	1N5819HW-7-F
25	1	D24	RED/GRE	DLED/1615			BRIGHT LED	BL-HGEUB36J-TRB
26	9	ED3,ED4,ED5,ED13,ED14, ED15,ED16,ED40,ED41	ESD9B5VL	E0402N			WILLSEM	ESD9B5VL-2/TR
27	8	ED6,ED7,ED8,ED9,ED10, ED11,ED12,ED29	ESD9B5V	E0402N			WILLSEM	ESD9B5VL-2/TR
28	4	FB7,FB9,FB10,FB11	FB/100R	L0402			Hongyex	EBMS100505A101
29	1	F2	FUSE/1A	L0603			JDT FUSE	JFC0603-1100
30	1	J2	TF_SD_SOCKET	757TF			TXGA	FCD406-6M
31	1	J8	HDMI	HDMI_Micro_D			YTCO	6541-19FHXXXXX015
32	1	J12	DC_IN	757DC			yuengfung Electronics	DC-056
33	2	J13,J17	USB	701MICRO			Shenzhen Atom Technology Co., Ltd.	USB205FD-A1005200
34	2	L3,L4	2.2uH/1A	IND-3X3	1.5A		Hongyex	EBLS1608-2R2-3D
35	1	L6	2.2uH/2A	IND-4X4	2A		Hongyex	EBLS1608-2R2-4D
36	1	L10	3.3uH/2A	IND-4X4	2A		Hongyex	EBLS1608-3R3-4D
37	1	L14	NC/10uH/1.5A	IND-4X4				
38	1	MIC1	MIC	MIC1.3	4.5V-2.2KΩ	-56±2dB	HuaSheng Electronics CO.LTD	SGOBM4015
39	2	M1,M2	0	TP/D3.4MM				
40	1	P6	USB-MINI-SOCKET	USB_DIP			Shenzhen Atom Technology Co., Ltd.	USB304F-A1002XXX
41	2	Q14,Q15	WNM2021/2SK3018	SOT-23			ROHM	2SK3018T106
42	2	Q22,Q25	WPM2341	SOT-23			semiwill	WPM2341
43	1	Q26	8050	SOT-23			SINLOON	SOT M8050
44	1	Q27	8550	SOT-23			SINLOON	SOT M8550
45	1	Q29	WPM3401/AO3401	SOT-23	30V		TY Semiconductor Co., Ltd	WPM3401
46	1	R5	0R	R0603	1/10W	+-5%		RJ0603-0R-HS
47	1	R27	NC/330K	R0402	1/16W	+-5%		
48	1	R35	4.99K%1	R0402	1/16W	+-1%		RF0402-4.99K-HS
49	1	R36	NC/43K	R0402	1/16W	+-5%		
50	1	R37	20K%1	R0402	1/16W	+-1%		RF0402-20K-HS
51	2	R38,R67	100R	R0402	1/16W	+-5%		RJ0402-100R-HS
52	6	R39,R106,R147,R148,R150, R329	1K	R0402	1/16W	+-5%		RJ0402-1K-HS
53	1	R40	0R	R0402	1/16W	+-5%		RJ0402-0R-HS
54	1	R42	100K%1	R0402	1/16W	+-1%		RF0402-100K-HS
55	2	R43,R107	22K	R0402	1/16W	+-5%		RJ0402-22K-HS
56	1	R46	14K7%1	R0402	1/16W	+-1%		RF0402-14.7K-HS

57	8	R47,R53,R55,R57,R143, R160,R181,R261	10K	R0402	1/16W	+5%	Royalohm	RJ0402-10K-HS
						+5%		
58	2	R48,R50	43R2	R0402	1/16W	+5%		RJ0402-43.2R-HS
59	2	R49,R161	100K	R0402	1/16W	+5%		RJ0402-100K-HS
60	1	R56	15K	R0402	1/16W	+5%		RJ0402-15K-HS
61	1	R58	22R	R0402	1/16W	+5%		RJ0402-22R-HS
62	1	R59	1M	R0402	1/16W	+5%		RJ0402-1M-HS
63	5	R62,R63,R64,R65,R66	240R%1	R0402	1/16W	+1%		RF0402-240R-HS
64	4	R68,R69,R70,R71	10K%1	R0402	1/16W	+1%		RF0402-10K-HS
65	6	R72,R73,R74,R75,R76,R77	33R	R0402	1/16W	+5%		RJ0402-33R-HS
66	3	R83,R151,R153	4K7	R0402	1/16W	+5%		RJ0402-4.7K-HS
67	6	R88,R89,R90,R91,R326, R327	1.5K	R0402	1/16W	+5%		RJ0402-1.5K-HS
68	4	R149,R188,R190,R328	4.7K	R0402	1/16W	+5%		RJ0402-4.7K-HS
69	4	R152,R154,R178,R186	2K	R0402	1/16W	+5%		RJ0402-2.0K-HS
70	1	R157	470R%1	R0402	1/16W	+1%		RF0402-470R-HS
71	1	R166	6K2%1	R0402	1/16W	+1%		RF0402-6.2K-HS
72	1	R167	120K%1	R0402	1/16W	+1%		RF0402-120K-HS
73	1	R168	7K5%1	R0402	1/16W	+1%		RF0402-7.5K-HS
74	1	R169	196K%1	R0402	1/16W	+1%		RF0402-196K-HS
75	3	R173,R175,R260	47K	R0402	1/16W	+5%		RJ0402-47K-HS
76	2	R176,R183	150K	R0402	1/16W	+5%		RJ0402-150K-HS
77	1	SW2	KEY	KEY/6X3	12V/50mA	50,000Cycles	yuengfung Electronics	TS-1108U
78	1	TP1	TEST	T-1.0				
79	1	U1	RK3066	BGA453-19X19			Rockchip	RK3066
80	4	U2,U3,U4,U5	K4B2G0846Q	BGA78			SAMSUNG	K4B2G0846Q-BCK0
81	1	U6	H27UCG8T2BTRBC	TSOP1-48			Hynix	H27UCGBT2BTR-BC
82	1	U8	EEPROM/24C16	TSSOP8			ATMEL	AT24C16C-XHM-T
83	1	U11	TPS659102	VQFN48			Texas Instruments	TPS659102A1RSLR
84	1	U12	SY8009BAAC	SOT23-5			Silergy Corp	SY8009BAAC
85	1	U13	ALC5631Q	QFN48/6D			Realteck	ALC5631Q-GRT
86	1	U14	NC/SY7208/TCS9208	SOT26			Silergy Corp.	SY7208ABC
87	1	U15	CP2102	QFN28/5D			Silicon Lab	CP2102-GMR
88	2	U51,U52	SEDFN05V4	SLP2510P8			ShangHai Sino-IC Microelectro	SEDFN05V4
89	1	Y1	32.768K	CR3215	12.5PF	20PPM	ShenZhen YXC	32.768KHZ-12.5PF
90	1	Y2	24M-20ppm	CRY-D3225	20PF	20PPM	Shenzhen YXC	24M-20PF
91	1	ZD1	3V	SOD323			CJ	BZT52C3V0S

Total 298