

## Bill of Materials

**Model No: F1-CTA-V1.1-1**

**Electronical materials**

Item	NW part no	Description	PCB Footprint	Manufacturer	Part Number	Part Reference	Quantity
0	04000108	8 layers PCB			F1-MB-V1.1		1
1		Backup battery for RTC	HB414-IV01E	Seiko	HB414-IV01E	BAT401	1
1a	18164144	Backup battery for RTC	ML414R-TT40	SANYO	ML414R-TT40		
1b	18160414	COIN-Type Electronic Double layer Capacitor	KS414T-ER	KST	KS414T-ER		
2	13110201	Ferrite Bead,1000ohm+/-25%	0402C	Murata	BLM15HD102SN1D	B101 B102 B304 B306 B307 B308 B309 B311	8
3	13225201	Ferrite Bead,2500ohm+/-25%	0603C	Murata	BLM18BD252SN1D	B303 B305 B310	3
4	13260102	Ferrite Bead,600ohm+/-25%	0603C	Murata	BLM18EG601SN1D	B401 B504	2
5	13175001	Ferrite Bead 75ohm+/-25%	0402C	Murata	BLM15BB750SN1D	B611 B613 B614 B618	4
6	10510702	Tan Cap,6.3V,1.9H,100u(CAP-B)	CAP-B	AVX	TAJB107M006RNJ	CT643	1
6a	10510704	Tan Cap,6.3V,1.9H,100u(CAP-B)	CAP-B	NICHICON	F930J107MBA		
7	10122003	Cap,COG,+/-5%,50V,22p	0402C	Murata	GRM1555C1H220J	C101 C102 C616 C626 C657 C667	6
7a	10122004	Cap,NP0, +/-5%,50V,22p	0402C	YAGEO	CC0402JRNPO9BN220		
8	10110402	Cap, X7R, +/-10%, 10V,100n	0402C	Murata	GRM155R71A104K	C103 C104 C105 C107 C109 C110 C111 C112 C113 C114 C202 C313 C318 C321 C337 C406 C412 C415 C416 C417 C418 C420 C430 C508 C509 C555 C556 C557 C632 C642 C647 C649 C651	33
8a	10110401	Cap,X5R,+/-10%,10V,100n	0402C	TaiyoYuden	LMK105BJ104KV		
9	10110202	Cap,X7R,+/-10%,50V,1n	0402C	Murata	GRM155R71H102K	C106 C640	2
9a	10110203	Cap,X7R, +/-10%,50V,1n	0402C	YAGEO	CC0402KRX7R9BB102		
10	10147304	Cap,X7R,+/-10%,16V,47n	0402C	Murata	GRM155R71C473K	C108	1
10a	10147305	Cap,X7R,+/-10%,16V,47n	0402C	YAGEO	CC0402KRX7R7BB473		
11	10322602	Cap,X5R,+/-20%,6.3V,22u	0805C	Murata	GRM21BR60J226M	C306 C309 C338	3
11a	10322603	Cap,X5R,+/-20%,6.3V,22u	0805C	YAGEO	CC0805MKX5R5BB226		
12	10110102	Cap,COG,+/-5%,50V,100p	0402C	Murata	GRM1555C1H101J	C307 C310 C311 C315 C317	5
12a	10110103	Cap,NP0,+/-5%,50V,100p	0402C	YAGEO	CC0402JRNPO9BN101		
13	10133002	Cap,COG,+/-5%,50V,33p	0402C	Murata	GRM1555C1H330J	C312 C314 C319 C320 C330 C638 C707	7
13a	10133003	Cap,NP0,+/-5%,50V,33p	0402C	YAGEO	CC0402JRNPO9BN330		
13.1	10147102	Cap,X7R,+/-10%,50V,470p	0402C	Murata	GRM155R71H471K	C325 C328	2
13.1a	10147101	Cap,X7R,+/-10%,50V,470p	0402C	YAGEO	CC0402KRX7R9BB471		
13.2	10102702	Cap,COG,+/-0.25PF,50V,2.7p	0402C	Murata	GR1555C1H2R7C	C334 C335	2
13.2a	10102703	Cap,NP0,+/-0.25PF,50V,2.7p	0402C	YAGEO	CC0402CRNPO9BN2R7		
14	10310605	Cap,X5R,+/-10%,6.3V,10u	0805C	Murata	GRM219R60J106K	C316 C322	2
14a	10310607	Cap,X5R,+/-20%,6.3V,10u	0805C	YAGEO	CC0805KKX5R5BB106		
15	10110303	Cap,X7R,+/-10%,25V,10n	0402C	Murata	GRM155R71E103K	C324 C620 C636	3
15a	10110306	Cap,X7R,+/-10%,50V,10n	0402C	YAGEO	CC0402KRX7R9BB103		
16	10247406	Cap,X5R,+/-10%,16V,0.47u(0603)	0603C	Murata	GRM188R61C474K	C327	1

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16a	10247409	Cap,X5R,+/-10%,16V,0.47u(0603)	0603C	YAGEO	CC0603KRX5R7BB474		
17	10247503	Cap,X5R,+/-10%,6.3V,4.7u	0603C	Murata	GRM188R60J475K	C402 C403 C408 C409 C410 C414 C421 C423 C506 C507 C514 C516 C639 C618	14
17a	10247505	Cap,X5R,+/-10%,6.3V,4.7u	0603C	YAGEO	CC0603KRX5R5BB475		
18	10210505	Cap,X5R,+/-10%,10V,1u(0603)	0603C	Murata	GRM188R61A105K	C404 C424 C607 C608 C637 C641 C644 C645 C646 C648 C439 C440 C441 C442	14
18a	10210507	Cap,X5R,+/-10%,10V,1u(0603)	0603C	YAGEO	CC0603KRX5R6BB105		
19	10110504	Cap,X5R,+/-10%,6.3V,1u	0402C	Murata	GRM155R60J105K	C405 C503 C443	3
19a	10110505	Cap,X5R,+/-10%,6.3V,1u	0402C	YAGEO	CC0402KRX5R5BB105		
20	10222504	Cap,X5R,+/-10%,6.3V,2.2u	0603C	Murata	GRM188R60J225K	C407 C411 C413	3
20a	10222506	Cap,X5R,+/-10%,6.3V,2.2u	0603C	YAGEO	CC0603KRX5R5BB225		
21	10110002	Cap,COG,+/-5%,50V,10p	0402C	Murata	GRM1555C1H100J	C419 C652 C662	3
21a	10110003	Cap, NP0, +/-5%, 50V, 10p	0402C	YAGEO	CC0402JRNPO9BN100		
22	10147002	Cap,COG,+/-5%,50V,47P	0402C	Murata	GRM1555C1H470J	C560 C562	2
22a	10147003	Cap,NP0,+/-5%,50V,47P	0402C	YAGEO	CC0402JRNPO9BN470		
23	17100002	Res,Thick film,+/-5%,1/16W,0R	0402C	YAGEO	RC0402JR-070RL	R531 R534 R535 R555 R557 R558 L605 C606 R607 R612 R614 R616	12
24	10100505	Cap,COG,+/-0.25pF,50V,0.5p	0402C	Murata	GRM1555C1HR50C	C611 C621 C623	3
24a	10100507	Cap,NP0,+/-0.25pF,50V,0.5p	0402C	YAGEO	CC0402CRNPO9BNR50		
25	10101502	Cap,COG,+/-0.25pF,50V,1.5p	0402C	Murata	GRM1555C1H1R5C	C612	1
25a	10101503	Cap,NP0,+/-0.25pF,50V,1.5p	0402C	YAGEO	CC0402CRNPO9BN1R5		
26	10101802	Cap,COG,+/-0.25pF,50V,1.8p	0402C	Murata	GRM1555C1H1R8C	C613	1
26a	10101805	Cap,NP0,+/-0.25pF,50V,1.8p	0402C	YAGEO	CC0402CRNPO9BN1R8		
27	10122103	Cap,X7R,+/-10%,50V,220p	0402C	Murata	GRM155R71H221K	C326 C615	2
27a	10122104	Cap,X7R,+/-10%,50V,220p	0402C	YAGEO	CC0402KRX7R9BB221		
28	10106002	Cap,COG,+/-0.5pF,50V,6p	0402C	Murata	GRM1555C1H6R0D	C617	1
28a	10106005	Cap, NP0,+/-0.5pF,50V, 6p	0402C	YAGEO	CC0402DRNPO9BN6R0		
29.1	10100506	Cap,COG,+/-0.25pF,50V,4.7p	0402C	Murata	GRM1555C1H4R7C	C655 C668	2
29.1a	10100508	Cap,NP0,+/-0.25pF, 50V,4.7p	0402C	YAGEO	CC0402CRNPO9BN4R7		
30	10118003	Cap,COG,+/-5%,50V,18p	0402C	Murata	GRM1555C1H180J	C659 C664	2
30a	10118004	Cap,NP0,+/-5%,50V,18p	0402C	YAGEO	CC0402JRNPO9BN180		
31	13100205	IND,MULTILAYER,1.8nH	0402C	Murata	LQG15HS1N8S02D	C661	1
31a	13100201	IND,MULTILAYER,1.8nH	0402C	TaiyoYuden	HK10051N8S-T		
32	12080631	SIM+Micro SD Connector,H2.7	CAF00-00274-1500	Linkconn	CAF00-00274-1500	JT401	1
33	11902010	Schottky Diode	EMD2	Rohm	RB520S-30	D301 D302 D411 D412	4
33a	11902014	Schottky Diode	SOD523	WILL	RB520S30-2/TR		

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34	18060952	ESD9X5V	WBFBP-02L	WILLSEMI	ESD9X5V-2/TR	E201 E202 E203 E204 E205 E206 E207 E208 E209 E210 E401 E305 E306 E307 E308 E309 E310 E311 E312 E313 E314 E315 E316 E317 E211 E212 E213 E214 E215	29
35	12061206	12PIN USB Female H2.0	UAF05-12204-1500	Linkconn	UAF05-12204-1500	JC301	1
35a	12061208	MINI USB socket,12PIN DIP Female H2.0	MMI02F012G4K00	EWPT	MMI02F012G4K00		
36	12080630	SIM card CONNECTOR SIM H2.7	CAF99-06270-1501	Linkconn	CAF99-06270-1501	JS401	1
37	12050410	Battery Connector,3Pin,2.00pitch,1.8H	HMT-6090001-458	HMT	HMT-6090001-458	J401	1
37a	12050330	Battery Connector,3Pin,2.00pitch,1.8H	BA10803513-R	VELA	BA10803513-R		
38	12032404	B2B Connector,24Pin, 0.4pitch,1.5H	AXT324164	NAIS	AXT324164	J203	1
39	12112409	B2B Connector,24Pin,0.4pitch,0.9H	BB24S-0.4-W49	HRS	DF30FC-24DS-0.4V	J502	1
40	12113901	Connector,39Pin,0.3pitch,1H	FPC2P-39S-0.3SH	HRS	FH26-39S-0.3SHW	J505	1
41	12100605	RF conector	MM8430-2600B	Murata	MM8430-2610	J602	1
42	13100901	IND,MULTILAYER,9.1nH	0402C	Murata	LQG15HS9N1J02	L601	1
42a	13100902	IND,MULTILAYER,9.1nH	0402C	TaiyoYuden	HK10059N1J-T		
43	13100702	IND,MULTILAYER,6.8nH	0402C	Murata	LQG15HS6N8J02D	L602	1
43a	13100701	IND,MULTILAYER,6.8nH	0402C	TaiyoYuden	HK10056N8J-T		
44	13100204	IND,MULTILAYER,2.2nH	0402C	Murata	LQG15HS2N2S02D	L603	1
44a	13100202	IND,MULTILAYER,2.2nH	0402C	TaiyoYuden	HK10052N2S-T		
45	13105102	IND,MULTILAYER,5.1nH	0402C	Murata	LQG15HS5N1S02D	L615	1
46	13100802	IND,MULTILAYER,8.2nH	0402C	Murata	LQG15HS8N2J02D	C671	1
46a	13100801	IND,MULTILAYER,8.2nH	0402C	TaiyoYuden	HK10058N2J		
47	13100304	IND,MULTILAYER,3.3nH	0402C	Murata	LQG15HS3N3S02D	C663	1
47a	13100303	IND,MULTILAYER,3.3nH	0402C	TaiyoYuden	HK10053N3S		
48	13115003	CHIP COIL,+/-2%,15nH	0402C	Sunlord	SDWL1005C15NG	L617	1
48a	13115002	CHIP COIL,+/-2%,15nH	0402C	Murata	LQW15AN15NG00		
49	20120010	BB Frame T02,23.20X2.40X1.80	F1-BB1	协力达	F1-BB1	M102	1
50	20220010	BB Cover T02,23.60X2.80X1.50	F1-BB2	协力达	F1-BB2	M101	1
51	20250010	PA Cove,12.65X11.10X2.0	F1-PA2	协力达	F1-PA2	M602	1
53	20214801	RF Transceiver Shielding Cover F480	18.70X13.00X1.75	友帮	F480-TR2	M612	1
54	17115403	Res,Thick film,+/-5%,1/16W,150k	0402C	YAGEO	RC0402JR-07150KL	R101	1
55	17112402	Res,Thick film,+/-5%,1/16W,120K	0402C	YAGEO	RC0402JR-07120KL	R303 R317 R321	3
56	17156402	Res,Thick film,+/-5%,1/16W,560K	0402C	YAGEO	RC0402JR-07560KL	R304	1
57	17115202	Res,Thick film,+/-5%,1/16W,1.5K	0402C	YAGEO	RC0402JR-071K5L	R305 R316 R325 R328	4
58	17110202	Res,Thick film,+/-5%,1/16W,1k	0402C	YAGEO	RC0402JR-071KL	R306 R307 R315 R318 R319 R324 R608 R611	8
59	17133002	Res,Thick film,+/-5%,1/16W,33R	0402C	YAGEO	RC0402JR-0733RL	R308 R311 R329	3
60	17118102	Res,Thick film,+/-5%,1/16W,180R	0402C	YAGEO	RC0402JR-07180RL	R310 R312	2
61	17115303	Res,Thick film,+/-5%,1/16W,15K	0402C	YAGEO	RC0402JR-0715KL	R314	1
62	17120303	Res,Thick film,+/-5%,1/16W,20k	0402C	YAGEO	RC0402JR-0720KL	R320 R556	2

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Item	NW part no	Description	PCB Footprint	Manufacturer	Part Number	Part Reference	Quantity
63	17110303	Res,Thick film,+/-5%,1/16W,10k	0402C	YAGEO	RC0402JR-0710KL	R322 R529 R530 R538 R615	5
64	17110404	Res,Thick film,+/-5%,1/16W,100k	0402C	YAGEO	RC0402JR-07100KL	R323 R420 R453 R540	4
65	17203301	Res,Thick film,+/-5%,1/10W,3.3R(0603)	0603C	YAGEO	RC0603JR-073R3L	R403	1
66	17302001	Res,Thick film,+/-1%,1/8W,0.2R	0805C	YAGEO	RL0805FR-070R2L	R411	1
67	17139202	Res,Thick film,+/-5%,1/16W,3.9k	0402C	YAGEO	RC0402JR-073K9L	R417	1
68	17133202	Res,Thick film,+/-5%,1/16W,3.3k	0402C	YAGEO	RC0402JR-073K3L	R450 R609	2
69	17147302	Res,Thick film,+/-5%,1/16W,47K	0402C	YAGEO	RC0402JR-0747KL	R506 R510 R514 R512	4
70	17115001	Res,Thick film,+/-1%,1/16W,15R	0402C	YAGEO	RC0402FR-0715RL	R513 R515 R517 R518	4
72	17110002	Res,Thick film,+/-5%,1/16W,10R	0402C	YAGEO	RC0402JR-0710RL	R606 R539	2
73	18216225	BaseBand IC	MT6225-264/P0.65/B0.3(12X12)	MTK	MT6225A	U101	1
74	18047004	MCP (128+32)	FBGA107P(8X11.6+7X9+9X12)-EVB	Toshiba	TV00570002CDGB	U201	1
75	18131429	AB CLASS Audio PA	9-BumpMicroSMD	GMT	G1429B9U	U301	1
75a	18132290	AB CLASS Audio PA	9-BumpMicroSMD	Chiphomer	CP2290GITLX		
76	18226318	Power management	MT6318-TFBGA96P/0.6	MTK	MT6318A	U401	1
77a	18224021	Power Mosfet & Schottky Diode	1206A	ON Semiconductor	NTHD4P02FT1G	U402	1
77b	18225853	Power Mosfet & Schottky Diode	1206A	VISHAY	SI5853CDC-T1-E3		
79	18091114	LDO,2.8V	SOT-23-5	RICOH	R1114N281B	U607	1
79a	18092017	LDO,2.8V	SOT-23-5	SGMC	SGM2017-2.8XN5/TR		
80	18236301	Touch Panel Controller	QFN16	MTK	MT6301	U508	1
80a	18032048	Touch Panel Controller	QFN16	Chiphomer	CP2056LQ		
81	18116139	RF Transceiver	QFN40	MTK	MT6139BN	U601	1
82	18128155	RF PA (RPF08155B)	RPF08155B-TB	RENESAS	RPF08155B	U603	1
83	18243465	ASM,BAND3	ASM3232	Murata	LMSP33CA-465	U605	1
84	19232002	RTC Crystal, 32.768KHZ,12.5pF,20ppm	MC-146	Seiko	SSP-T732.768KHZ	X101	1
84a	19232004	RTC Crystal, 32.768KHZ,12.5pF,20ppm	MC-146	EPSON	MC-146		
85	19426003	26MHz Crystal,for MT6139	TCXO3225	SAMSUNG	SQ3D02600B2JBA	X601	1
85a	19426004	26MHz Crystal,for MT6139	TCXO3225	Kyocera	CX3225SB26000B6FZF30		
85b	19426005	26MHz Crystal,for MT6139	TCXO3225	TST	TZ0928A		
85c	19426002	26MHz Crystal,for MT6139	TCXO3225	TXC	7M26000314		
86	18273881	RX SAW (1800/1900)	QCS10F	Murata	SAWEN1G84CV0F00	Z604	1
87	18272881	RX SAW (850/900)	QCS10F	Murata	SAWEN881MCX0F00	Z605	1
88	18096182	LDO 1.8V	SOT-23-3	Torex	XC6206P182MR	U501	1
88a	18092013	LDO 1.8V	SOT-23-3	SGMC	SGM2013-1.8XN3/TR		
152	18176302	Analog switch	MQFN20	MTK	MT6302	U407	1
203	10124001	Cap,X5R,+/-5%,50V,24P	0402C	Murata	GRM1555C1H240J	C817	1
203a	10124002	Cap,NP0,+/-5%,50V,24P	0402C	YAGEO	CC0402JRNPO9BN240		
204	13110102	IND,MULTILAYER,100nH	0402C	Murata	LQG15HSR10J02D	L801	1
204a	13110101	IND,MULTILAYER,100nH	0402C	TaiyoYuden	HK1005R10J-T		

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