



Bill of Materials

TI DESIGNS

TIDM-FRAM-CTPL

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	C1	10p	CAP CER 10PF 50V NP0	Standard				
2	1	C2	10p	CAP CER 10PF 50V NP0 0402,Digikey 445-1235-1-ND	Standard				
3	1	C3	1n1	CAP CER 1100PF 50V 5% NP0 0402, Digikey 399-9948-1-ND	Standard				
4	1	C4	10u	CAP TANT 10UF 10V 20% 1206,Digikey 493-2351-1-ND	Standard				
5	1	C5	100n	CAP CER 0.1UF 16V 10% X7R 0603,Digikey 445-1317-1-ND	Standard				
6	1	C6	100n	CAP CER 0.1UF 16V 10% X7R 0603,Digikey 445-1317-1-ND	Standard				
7	1	C7	100n	CAP CER 0.1UF 16V 10% X7R 0603,Digikey 445-1317-1-ND	Standard				
8	1	C8	100n	CAP CER 0.1UF 16V 10% X7R 0603,Digikey 445-1317-1-ND	Standard				
9	1	CLCD	4.7u	CAP CER 4.7UF 10V 10% X5R 0603,Digikey 445-5170-1-ND	Standard				
10	1	C101	470n	CAP CER 0.47UF 16V 10% X5R 0402,Digikey 445-4976-1-ND	Standard				
11	1	C102	220n	CAP CER 0.22UF 16V 10% X5R 0402,Digikey 445-4972-1-ND	Standard				
12	1	C103	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard				
13	1	C104	10u	CAP TANT 10UF 10V 20% 1206,Digikey 493-2351-1-ND	Standard				
14	1	C105	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard				
15	1	C106	4.7u	CAP TANT 4.7UF 10V 10% 1206,Digikey 493-4142-1-ND	Standard				
16	1	C107	220n	CAP CER 0.22UF 16V 10% X5R 0402,Digikey 445-4972-1-ND	Standard				
17	1	C108	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard				
18	1	C109	4.7u	CAP TANT 4.7UF 10V 10% 1206,Digikey 493-4142-1-ND	Standard				

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
19	1	C110	10p	CAP CER 10PF 50V NP0 0402,Digikey 445-1235-1-ND	Standard				
20	1	C111	10p	CAP CER 10PF 50V NP0 0402,Digikey 445-1235-1-ND	Standard				
21	1	C112	1n	CAP CER 1000PF 50V 10% X7R	Standard				
22	1	C113	100n	CAP CER 0.1UF 10V 20% X5R	Standard				
23	1	C114	100n	CAP CER 0.1UF 10V 20% X5R	Standard				
24	1	C115	33p	CAP CER 33PF 50V 5% NP0	Standard				
25	1	C116	33p	CAP CER 33PF 50V 5% NP0	Standard				
26	1	C117	4.7u	CAP CER 4.7UF 10V 10% X5R	Standard				
27	1	C118	100n	0402,Digikey 445-4984-1-ND	Standard				
28	1	C119	4.7u	0603, Digikey 445-5170-1-ND	TDK	C1608X5R1A475K080AC			
29	1	C120	100n	0402,Digikey 445-4984-1-ND	Standard				
30	1	C121	100n	0402,Digikey 445-4984-1-ND	Standard				
31	1	C122	33p	0402,Digikey 445-1241-1-ND	Standard				
32	1	C123	33p	0402,Digikey 445-1241-1-ND	Standard				
33	1	C124	100n	0402,Digikey 445-4984-1-ND	Standard				
34	1	C125	100n	0402,Digikey 445-4984-1-ND	Standard				
35	1	D101	BAS40-05W	SOT-323,Digikey 568-7982-1-ND	NXP	BAS40-05W 115			
36	1	D102	BAS40-05W	SOT-323,Digikey 568-7982-1-ND	NXP	BAS40-05W 115			
37	0	ESI1		GOLD R/A, Digikey S9179-ND	Standard				
38	1	FOOT1		inch)	CM				
39	1	FOOT2		inch)	CM				
40	1	FOOT3		inch)	CM				
41	1	FOOT4		inch)	CM				
42	1	IC101	TLV70036DSE	6WSON,Digikey 296-25215-1-ND	TI	TLV70033DSE			
43	1	IC102	TPD4E004DRY	SON,Digikey 296-23618-1-ND	TI	TPD4E004DRY			
44	1	IC103	TS5A21366RSER	8QFN,Digikey 296-25285-1-ND	TI	TS5A21366RSER			
45	1	J1/J3		STR 20POS	Standard				
46	1	J2/J4		STR 20POS	Standard				
47	1	J5		3POS,Digikey S1012E-03-ND	Standard				
48	1	J6		3POS,Digikey S1012E-03-ND	Standard				
49	1	J7	Place Jumper	2POS,Digikey S1012E-02-ND	Standard				
50	1	J8	Place Jumper	2POS,Digikey S1012E-02-ND	Standard				
51	1	J101	RTS/CTS)	18POS,Digikey S2012E-09-ND	Standard				
52	1	J102	ZX62R-B-5P	R/A, Digikey H11574CT-ND	Hirose Electrical Co	ZX62R-B-5P			
53	1	L101	2.2uH	CBC2518T2R2M, Digikey 587-1618-	Taiyo Yuden	CBC2518T2R2M			
54	1	LCD1		symbols, 6 alphanumeric characters	Adkom	FH-1138P			
55	1	LED1	Low Current Red	SMD,Digikey 160-1181-1-ND	Standard				
56	1	LED2	Low Current Green	SMD,Digikey 160-1183-1-ND	Standard				
57	1	LED101	Low Current Red	SMD,Digikey 160-1181-1-ND	Standard				
58	1	LED102	Low Current Green	SMD,Digikey 160-1183-1-ND	Standard				
59	1	MSP1	MSP430FR6989IPZR	100LQFP,Digikey	TI	MSP430FR6989IPZR			
60	1	MSP101	MSP430F5528IRGC	64VQFN,Digikey 296-27400-1-ND	TI	MSP430F5528IRGC			
61	1	MSP102	MSP430G2452RSA	16QFN,Digikey 296-28129-1-ND	TI	MSP430G2452RSA			
62	1	Q1	32.7638 kHz, 7.0pF	32.768KHZ 7.0PF +/-20PPM	Micro Crystal AG	MS3V-T1R			
63	1	Q101	15L99	CER RESONATOR 4.00MHZ SMD	Murata	CSTCR4M00G15L99			
64	0	R03			Standard				

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65	0	R13			Standard				
66	0	R23			Standard				
67	0	R33			Standard				
68	1	R1	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
69	1	R2	470	SMD,Digikey 311-470LRCT-ND	Standard				
70	1	R4	470	SMD,Digikey 311-470LRCT-ND	Standard				
71	1	R5	390	SMD,Digikey 311-390LRCT-ND	Standard				
72	1	R6	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
73	1	R7	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
74	1	R8	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
75	1	R9	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
76	1	R10	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
77	1	R11	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
78	1	R12	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
79	1	R14	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
80	1	R15	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
81	1	R101	470	SMD,Digikey 311-470LRCT-ND	Standard				
82	1	R102	390	SMD,Digikey 311-390LRCT-ND	Standard				
83	1	R103	27	SMD,Digikey 311-27JRCT-ND	Standard				
84	1	R104	27	SMD,Digikey 311-27JRCT-ND	Standard				
85	1	R105	1k4	SMD, Digikey P1.40KLCT-ND	Standard				
86	1	R106	1M	SMD,Digikey 311-1.00MLRCT-ND	Standard				
87	1	R107	47k	SMD,Digikey 311-47.0KLRCT-ND	Standard				
88	1	R108	47k	SMD,Digikey 311-47.0KLRCT-ND	Standard				
89	1	R109	47k	SMD,Digikey 311-47.0KLRCT-ND	Standard				
90	1	R112	220k	SMD,Digikey 311-220KLRCT-ND	Standard				
91	1	R113	220k	SMD,Digikey 311-220KLRCT-ND	Standard				
92	1	R114	220k	SMD,Digikey 311-220KLRCT-ND	Standard				
93	1	R115	220k	SMD,Digikey 311-220KLRCT-ND	Standard				
94	1	R116	4k7	SMD,Digikey 311-4.7KJRCT-ND	Standard				
95	1	R117	4k7	SMD,Digikey 311-4.7KJRCT-ND	Standard				
96	1	R118	820	SMD,Digikey 311-820LRCT-ND	Standard				
97	1	R119	0	SMD,Digikey 311-0.0JRTR-ND	Standard				
98	1	R120	470	SMD,Digikey 311-470LRCT-ND	Standard				
99	1	R121	220k	SMD,Digikey 311-220KLRCT-ND	Standard				
100	1	R122	220k	SMD,Digikey 311-220KLRCT-ND	Standard				
101	1	R123	33k	SMD,Digikey 311-33.0KLRCT-ND	Standard				
102	1	R124	240k	SMD,Digikey 311-240KLRCT-ND	Standard				
103	1	R125	150k	SMD,Digikey 311-150KLRCT-ND	Standard				
104	1	R126	2k2	SMD,Digikey 311-2.20KLRCT-ND	Standard				
105	1	R127	3k3	SMD,Digikey 311-3.30KLRCT-ND	Standard				
106	1	R128	6k8	SMD,Digikey 311-6.80KLRCT-ND	Standard				
107	1	S1	EVQ221304M	15V,Digikey P12216SCT-ND	Standard				
108	1	S2	EVQ221304M	15V,Digikey P12216SCT-ND	Standard				
109	1	S3	EVQ221304M	15V,Digikey P12216SCT-ND	Standard				
110	1	T101	DMG1013UW-7	SOT323,Digikey DMG1013UW-	Diodes	DMG1013UW-7			
111	1	T102	BC850CW-115	SOT323,Digikey 568-6076-1-ND	NXP	BC850CW-115			