

Bill of Materials

TI DESIGNS

TIDM-NFC-RW

Item	Qty	Reference	Value	Part Description	Manufacturer	Supplier	Supplier Part Number
1	1	C1	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
2	1	C2	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
3	1	C3	10u	CAP TANT 10UF 10V 20% 1206	Standard	Digikey	493-2351-1-ND
4	1	C4	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
5	1	C5	12p	CAP CER 12PF 50V 5% NPO 0402	Standard	Digikey	445-1236-1-ND
6	1	C6	12p	CAP CER 12PF 50V 5% NPO 0402	Standard	Digikey	445-1236-1-ND
7	1	C7	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
8	1	C8	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
9	1	C9	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
10	1	C10	4.7u	CAP CER 4.7UF 10V Y5V 0805	Standard	Digikey	445-1370-1-ND
11	1	C11	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND
12	1	C12	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND
13	1	C13	1n	CAP CER 1000PF 50V 10% X7R 0402	Standard	Digikey	445-1256-1-ND
14	1	C14	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
15	1	C101	12p	CAP CER 12PF 50V 5% NPO 0402	Standard	Digikey	445-1236-1-ND
16	1	C102	12p	CAP CER 12PF 50V 5% NPO 0402	Standard	Digikey	445-1236-1-ND
17	1	C103	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
18	1	C104	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
19	1	C105	2.2u	CAP CER 2.2UF 10V 10% X5R 0603	Standard	Digikey	587-1253-1-ND
20	1	C106	4.7u	CAP TANT 4.7UF 10V 10% 1206	Standard	Digikey	478-8221-1-ND
21	1	C107	1u	CAP CER 1UF 10V 10% X5R 0603	Standard	Digikey	445-1321-1-ND
22	1	C109	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
23	1	C110	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
24	1	C111	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
25	1	C112	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
26	1	C113	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
27	1	C114	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
28	1	C115	33p	CAP CER 33PF 50V 5% NPO 0402	Standard	Digikey	445-1241-1-ND
29	1	C116	33p	CAP CER 33PF 50V 5% NPO 0402	Standard	Digikey	445-1241-1-ND
30	1	C117	4.7u	CAP CER 4.7UF 10V 10% X5R 0603	Standard	Digikey	445-5170-1-ND
31	1	C118	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
32	1	C119	4.7u	CAP CER 4.7UF 10V 10% X5R 0603	TDK	Digikey	445-5170-1-ND
33	1	C120	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
34	1	C121	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
35	1	C122	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
36	1	C123	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
37	1	C124	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
38	1	C125	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
39	1	C126	220n	CAP CER 0.22UF 16V 10% X5R 0402	Standard	Digikey	445-4972-1-ND
40	1	C127	220n	CAP CER 0.22UF 16V 10% X5R 0402	Standard	Digikey	445-4972-1-ND
41	1	C128	47u	CAP CER 47UF 10V 20% X5R 1206	Standard	Digikey	445-6006-1-ND
42	1	C129	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
43	1	C130	1u	CAP CER 1UF 10V 10% X5R 0603	Standard	Digikey	445-1321-1-ND
44	1	C131	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
45	1	C132	1u	CAP CER 1UF 10V 10% X5R 0603	Standard	Digikey	445-1321-1-ND
46	1	C133	2.2u	CAP CER 2.2UF 10V 10% X5R 0603	Standard	Digikey	587-1253-1-ND
47	1	C134	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND

Item	Qty	Reference	Value	Part Description	Manufacturer	Supplier	Supplier Part Number
48	1	C135	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
49	1	C136	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
50	1	C137	2.2u	CAP CER 2.2UF 10V 10% X5R 0603	Standard	Digikey	587-1253-1-ND
51	1	C138	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
52	1	C139	2.2u	CAP CER 2.2UF 10V 10% X5R 0603	Standard	Digikey	587-1253-1-ND
53	1	C140	4.7u	CAP TANT 4.7UF 10V 10% 1206	Standard	Digikey	478-8221-1-ND
54	1	C141	1u	CAP CER 1UF 10V 10% X5R 0603	Standard	Digikey	445-1321-1-ND
55	1	C142	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
56	1	C143	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
57	1	C144	2.2u	CAP CER 2.2UF 10V 10% X5R 0603	Standard	Digikey	587-1253-1-ND
58	1	C145	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
59	1	C146	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
60	1	C147	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
61	1	C148	10n	CAP CER 10000PF 10V 10% X7R 0402	Standard	Digikey	478-7890-1-ND
62	1	C149	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND
63	1	D101	BAS40-05	DIODE SCHOTTKY 40V 120MA TO236AB	NXP	Digikey	568-4862-1-ND
64	1	D102	BAS40-05	DIODE SCHOTTKY 40V 120MA TO236AB	NXP	Digikey	568-4862-1-ND
65	1	IC101	TPS73533DRB	IC REG LDO 3.3V 0.5A 8SON	TI	Digikey	296-24854-1-ND
66	1	IC102	TPD4E004DRY	IC 4CH ESD-PROT ARRAY 6-SON	TI	Digikey	296-23618-1-ND
67	1	IC103	TPS2012DBV	IC OR CTRLR SRC SELECT SOT23-5	TI	Digikey	296-10880-1-ND
68	1	IC104	TPS73533DRB	IC REG LDO 1.8V 0.2A WSON	TI	Digikey	296-25213-1-ND
69	1	IC105	TPD4E004DRY	IC TXRX USB 2.0 ULPI 32QFN	TI	Digikey	296-28545-1-ND
70	1	IC106	TM4C1294NCPDT	IC MCU 32BIT	TI	Digikey	296-38028-ND
71	1	IC107	LM4040B25DCK	IC VREF SHUNT PREC 2.5V SC-70-5	TI	Digikey	296-20873-1-ND
72	1	IC108	SN74AVCAT245RSV	IC BUS TRANSCVR 4BIT 16-UQFN	TI	Digikey	296-24366-1-ND
73	1	IC109	SN74AVCAT245RSV	IC BUS TRANSCVR 4BIT 16-UQFN	TI	Digikey	296-24366-1-ND
74	1	IC110	SN74AVCAT245RSV	IC BUS TRANSCVR 4BIT 16-UQFN	TI	Digikey	296-24366-1-ND
75	1	IC111	SN74CBLV3257	IC 4BIT 1-4 FET MUX/DEMUX 16UQFN	TI	Digikey	296-35586-1-ND
76	1	J1/J3		CONN HEADER 20POS .100" DUAL, FEMALE with long male leads	CM	CM	to be provided by CM
77	1	J2/J4		CONN HEADER 20POS .100" DUAL, FEMALE with long male leads	CM	CM	to be provided by CM
78	1	J6		CONN HEADER .100 SINGL STR 3POS	Standard	Digikey	51012E-03-ND
79	1	J7		CONN HEADER .100 SINGL STR 3POS	Standard	Digikey	51012E-03-ND
80	1	JP2	Place Jumper (+5V)	CONN HEADER 2POS .100" SINGL TIN	Standard	Digikey	SAM1075-02-ND
81	1	JP3	Place Jumper (+3V3)	CONN HEADER 2POS .100" SINGL TIN	Standard	Digikey	SAM1075-02-ND
82	1	JP4.1	Place Jumper (RTS)	CONN HEADER 2POS .100" SINGL TIN	Standard	Digikey	SAM1075-02-ND
83	1	JP4.2	Place Jumper (CTS)	CONN HEADER 2POS .100" SINGL TIN	Standard	Digikey	SAM1075-02-ND
84	1	JP4.3	Place Jumper (RXD)	CONN HEADER 2POS .100" SINGL TIN	Standard	Digikey	SAM1075-02-ND
85	1	JP4.4	Place Jumper (TXD)	CONN HEADER 2POS .100" SINGL TIN	Standard	Digikey	SAM1075-02-ND
86	1	JP8	Place Jumper	CONN HEADER .100 SINGL STR 2POS	Standard	Digikey	51012E-02-ND
87	1	JP9	Place Jumper	CONN HEADER .100 SINGL STR 2POS	Standard	Digikey	51012E-02-ND
88	1	JP10	Place Jumper	CONN HEADER .100 SINGL STR 2POS	Standard	Digikey	51012E-02-ND
89	1	JP11	Place Jumper	CONN HEADER .100 SINGL STR 2POS	Standard	Digikey	51012E-02-ND
90	1	J101	ZX62R-B-5P	CONN RCPT MICRO USB B SMD R/A	Hirose Electrical Co	Digikey	H11574CT-ND
91	1	J102		CONN HEADER 10POS DUAL VERT	Standard	Digikey	FTSH-105-01-F-D-K-ND
92	1	L1	4.7uH	INDUCTOR 4.7UH 300MA 0806	Murata	Digikey	490-4044-1-ND
93	1	L101	2.2uH	2.2uH, Tayo Yuden CBC2518T2R2M	Taiyo Yuden	Digikey	587-1618-1-ND
94	1	LED1	Low Current Red	LED RED CLEAR 0603 SMD	Standard	Digikey	160-1181-1-ND
95	1	LED2		LED RGB CLEAR SMD, Everlight 19-337/R6GHBHC-A01/2T or EAST1616RGBAS	Everlight	Everlight	19-337/R6GHBHC-A01/2T
96	1	LED101	Low Current Red	LED RED CLEAR 0603 SMD	Standard	Digikey	160-1181-1-ND
97	1	LED102	Low Current Green	LED GREEN CLEAR 0603 SMD	Standard	Digikey	160-1183-1-ND
98	1	MSP1		IC MCU 32BIT	TI		
99	1	MSP101	MSP430G2452RSA	IC MCU 16BIT 8KB FLASH 16QFN	TI	Digikey	296-28129-1-ND
100	1	Q1	32.7638 kHz, 7.0pF	MICRO CRYSTAL - MS3V-T1R 32.768KHZ 7.0PF +/-20PPM	Mico Crystal AG	Microcrystal	MS3V-T1R 7pF
101	1	Q2	48MHz, 12pF	Crystal KX-7T 48MHz 12pF 30/30/50ppm	Standard		
102	1	Q101	16MHz, 8pF	CRYSTAL 16MHZ 8PF SMD	Standard	Digikey	644-1174-1-ND
103	1	R1	0	RES 0.0 OHM 1/16W 0402 SMD	Standard	Digikey	311-0.0JRTR-ND
104	1	R2	110	RES 110 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-110LRCT-ND

Item	Qty	Reference	Value	Part Description	Manufacturer	Supplier	Supplier Part Number
105	1	R3	16	RES 16 OHM 1/10W 5% 0402 SMD	Standard	Digikey	P16JCT-ND
106	1	R4	24	RES 24 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-24JRCT-ND
107	1	R5	91kOhm, 0.1%, 25ppm	RES 91K OHM 1/8W 0.1% 0805 SMD	Panasonic	Digikey	P91KDACT-ND
108	1	R6	47k	RES 47.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-47.0KLRCT-ND
109	1	R7	470	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND
110	1	R8	1k	RES 1.0K OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-1.0KJRCT-ND
111	1	R102	100	RES 100 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-100LRCT-ND
112	1	R103	10k	RES 10.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-10.0KLRCT-ND
113	1	R104	51	RES 51 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-51JRCT-ND
114	1	R105	1k	RES 1.00K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.00KLRCT-ND
115	1	R106	2	RES 2.0 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-2.0JRCT-ND
116	1	R107	47k	RES 47.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-47.0KLRCT-ND
117	1	R108	1k	RES 1.0K OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-1.0KJRCT-ND
118	1	R109	1k	RES 1.0K OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-1.0KJRCT-ND
119	1	R110	1k	RES 1.0K OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-1.0KJRCT-ND
120	1	R111	470	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND
121	1	R112	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
122	1	R113	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
123	1	R114	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
124	1	R115	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
125	1	R116	4k7	RES 4.7K OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-4.7KJRCT-ND
126	1	R117	4k7	RES 4.7K OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-4.7KJRCT-ND
127	1	R118	820	RES 820 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-820LRCT-ND
128	1	R119	0	RES 0.0 OHM 1/16W 0402 SMD	Standard	Digikey	311-0.0JRTR-ND
129	1	R120	470	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND
130	1	R123	33	RES 33 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-33JRCT-ND
131	1	R124	470	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND
132	1	R125	10k	RES 10.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-10.0KLRCT-ND
133	1	R126	2k2	RES 2.20K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-2.20KLRCT-ND
134	1	R127	3k3	RES 3.30K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-3.30KLRCT-ND
135	1	R128	6k8	RES 6.80K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-6.80KLRCT-ND
136	1	R129	10k	RES 10.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-10.0KLRCT-ND
137	1	R131	0	RES 0.0 OHM 1/16W 0402 SMD	Standard	Digikey	311-0.0JRTR-ND
138	1	R132	330k	RES 330K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-330KLRCT-ND
139	1	R133	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
140	1	R135	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
141	1	R136	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCT-ND
142	1	R137	0	RES 0.0 OHM 1/16W 0402 SMD	Standard	Digikey	311-0.0JRTR-ND
143	1	R138	0	RES 0.0 OHM 1/16W 0402 SMD	Standard	Digikey	311-0.0JRTR-ND

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