

Bill of Materials

TI DESIGNS

TIDM-NFC-RW

Item	Qty	Reference	Value	Part Description	Manufacturer	Supplier	Supplier Part Number	Note
1	1	C101	470n	CAP CER 0.47UF 16V 10% X5R 0402	Standard	Digikey	445-4976-1-ND	ezFET
2	1	C102	220n	CAP CER 0.22UF 16V 10% X5R 0402	Standard	Digikey	445-4972-1-ND	ezFET
3	1	C103	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	ezFET
4	1	C104	10u	CAP TANT 10UF 10V 20% 1206	Standard	Digikey	493-2351-1-ND	ezFET
5	1	C107	220n	CAP CER 0.22UF 16V 10% X5R 0402	Standard	Digikey	445-4972-1-ND	ezFET
6	1	C110	10p	CAP CER 10PF 50V NPO 0402	Standard	Digikey	445-1235-1-ND	ezFET
7	1	C111	10p	CAP CER 10PF 50V NPO 0402	Standard	Digikey	445-1235-1-ND	ezFET
8	1	C112	1n	CAP CER 1000PF 50V 10% X7R 0402	Standard	Digikey	445-1256-1-ND	ezFET
9	1	C113	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	ezFET
10	1	C121	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	ezFET
11	1	C122	33p	CAP CER 33PF 50V 5% NPO 0402	Standard	Digikey	445-1241-1-ND	ezFET
12	1	C123	33p	CAP CER 33PF 50V 5% NPO 0402	Standard	Digikey	445-1241-1-ND	ezFET
13	1	C14	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
14	1	C15	220n	CAP CER 0.22UF 16V 10% X5R 0402	Standard	Digikey	445-4972-1-ND	LP
15	1	C16	220n	CAP CER 0.22UF 16V 10% X5R 0402	Standard	Digikey	445-4972-1-ND	LP
16	1	C17	1n	CAP CER 1000PF 50V 10% X7R 0402	Standard	Digikey	445-1256-1-ND	LP
17	1	C18	470n	CAP CER 0.47UF 16V 10% X5R 0402	Standard	Digikey	445-4976-1-ND	LP
18	1	C19	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
19	1	C20	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
20	1	C21	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
21	1	C23	10p	CAP CER 10PF 50V 5%NPO 0402	Standard	Digikey	445-1235-1-ND	LP
22	1	C24	10p	CAP CER 10PF 50V 5% NPO 0402	Standard	Digikey	445-1235-1-ND	LP
23	1	C25	12p	CAP CER 12PF 50V 5% NPO 0402	Standard	Digikey	445-1236-1-ND	LP
24	1	C26	12p	CAP CER 12PF 50V 5% NPO 0402	Standard	Digikey	445-1236-1-ND	LP
25	1	C27	4u7	CAP TANT 4.7UF 10V 10% 1206	Standard	Digikey	493-4142-1-ND	LP
26	1	C28	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
27	1	C29	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
28	1	C30	10u	CAP TANT 10UF 10V 20% 1206	Standard	Digikey	493-2351-1-ND	LP
29	1	C31	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	LP
30	1	C401	1u	CAP CER 1UF 10V 10% X7R 0805	Standard	Digikey	587-1284-2-ND	Hub
31	1	C402	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	Hub
32	1	C403	4u7	CAP TANT 4.7UF 10V 10% 1206	Standard	Digikey	493-4142-1-ND	Hub
33	1	C404	1u	CAP CER 1UF 10V 10% X7R 0805	Standard	Digikey	587-1284-2-ND	Hub
34	1	C405	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND	Hub
35	1	C406	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND	Hub
36	1	C407	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	Hub
37	1	C408	100n	CAP CER 0.1UF 10V 20% X5R 0402	Standard	Digikey	445-4984-1-ND	Hub
38	1	C409	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND	Hub
39	1	C410	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND	Hub

Item	Qty	Reference	Value	Part Description	Manufacturer	Supplier	Supplier Part Number	Note
40	1	C411	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND	Hub
41	1	C412	22p	CAP CER 22PF 50V 5% NPO 0402	Standard	Digikey	445-1239-1-ND	Hub
42	1	IC401	TUSB2046BIRHBIRHB	IC 4-PORT HUB FOR USB 32-QFN	TI	Digikey	296-21926-1-ND	Hub
43	1	J1		CONN HEADER 20POS .100" DUAL, FEMALE with long male leads				LP
44	1	J10	PWR	CONN HEADER 3POS .100" SNGL TIN	Standard	Digikey	SAM1075-03-ND	LP
45	1	J3	PWR	CONN HEADER 3POS .100" SNGL TIN	Standard	Digikey	SAM1075-03-ND	LP
46	1	J401	ZX62R-B-5P	CONN RCPT MICRO USB B SMD R/A	Standard	Digikey	H11574CT-ND	Hub
47	1	J5		CONN HEADER 20POS .100" DUAL, FEMALE with long male leads				LP
48	1	JP1	+5V	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
49	1	JP2	+3V3	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
50	1	JP3	GND	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
51	1	JP4.1	SBWTCK	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
52	1	JP4.2	SBWTDIO	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
53	0	JP4.3	SBWDAT (dnp)	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
54	1	JP6.1	TXD	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
55	1	JP6.2	RXD	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
56	1	JP6.3	CTS	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
57	1	JP6.4	RTS	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
58	1	JP8	LED1_PWR	CONN HEADER 2POS .100" SNGL TIN	Standard	Digikey	SAM1075-02-ND	LP
59	1	L401	2.2uH (NR3010T2R2M)	INDUCTOR 2.2UH 20% SMD	Taiyo Yuden	Digikey	587-1638-1-ND	Hub
60	1	LED1		LED RED CLEAR 0603 SMD	Standard	Digikey	160-1181-1-ND	LP
61	1	LED101	Red	LED RED CLEAR 0603 SMD	Standard	Digikey	160-1181-1-ND	ezFET
62	1	LED102	Green	LED GREEN CLEAR 0603 SMD	Standard	Digikey	160-1183-1-ND	ezFET
63	1	LED2		LED GREEN CLEAR 0603 SMD	Standard	Digikey	160-1183-1-ND	LP
64	1	MSP101	MSP430F528IRGC	IC MCU 16BIT 128KB FLASH 64VQFN	TI	Digikey	296-27400-1-ND	ezFET
65	1	Q101	PIEZO_CSTCR4M00G15	CER RESONATOR 4.00MHZ SMD	Murata	Murata	CSTCR4M00G15L99	ezFET
66	1	Q2	32.768kHz Microcrysta	MS3V-T1R 32.768kHz CL 12pF +20ppm, Microcrystal	Microcrystal	Microcrystal	MS3V-T1R	LP
67	1	Q4	PIEZO_CSTCR4M00G15	CER RESONATOR 4.00MHZ SMD	Murata	Murata	CSTCR4M00G15L99	LP
68	1	Q401	PIEZO_CSTCR6M00G15	CER RESONATOR 6.00MHZ SMD	Murata	Murata	CSTCR6M00G15L99	Hub
69	1	R101	470	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND	ezFET
70	1	R102	390	RES 390 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-390LRCT-ND	ezFET
71	1	R103	27	RES 27 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-27JRCT-ND	ezFET
72	1	R104	27	RES 27 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-27JRCT-ND	ezFET
73	1	R105	1k4	RES 1.33K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.33KLRCCT-ND	ezFET
74	1	R106	1M	RES 1.00M OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.00MLRCT-ND	ezFET
75	1	R109	47k	RES 47.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-47.0KLRCCT-ND	ezFET
76	1	R121	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCCT-ND	ezFET
77	1	R122	220k	RES 220K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-220KLRCCT-ND	ezFET
78	1	R124	240k	RES 240K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-240KLRCCT-ND	ezFET
79	1	R125	150k	RES 150K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-150KLRCCT-ND	ezFET
80	1	R14	100R	RES 100 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-100LRCT-ND	LP
81	1	R15	1k4	RES 1.33K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.33KLRCCT-ND	LP
82	1	R16	1M	RES 1.00M OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.00MLRCT-ND	LP
83	1	R27	47k	RES 47.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-47.0KLRCCT-ND	LP
84	1	R28	0R	RES 0.0 OHM 1/16W 0402 SMD	Standard	Digikey	311-0.0JRTR-ND	LP
85	1	R29	470R	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND	LP
86	1	R30	470R	RES 470 OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-470LRCT-ND	LP
87	1	R31	27R	RES 27 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-27JRCT-ND	LP
88	1	R32	27R	RES 27 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-27JRCT-ND	LP
89	1	R401	33R	RES 33 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-33JRCT-ND	Hub

Item	Qty	Reference	Value	Part Description	Manufacturer	Supplier	Supplier Part Number	Note
90	1	R402	10k	RES 10.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-10.0KLRCT-ND	Hub
91	1	R403	1k5	RES 1.50K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.50KLRCT-ND	Hub
92	1	R404	47k	RES 47.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-47.0KLRCT-ND	Hub
93	1	R405	22R	RES 22 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-22JRCT-ND	Hub
94	1	R406	22R	RES 22 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-22JRCT-ND	Hub
95	1	R407	1k5	RES 1.50K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-1.50KLRCT-ND	Hub
96	1	R408	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
97	1	R409	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
98	1	R410	22R	RES 22 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-22JRCT-ND	Hub
99	1	R411	22R	RES 22 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-22JRCT-ND	Hub
100	1	R412	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
101	1	R413	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
102	1	R414	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
103	1	R415	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
104	1	R416	22R	RES 22 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-22JRCT-ND	Hub
105	1	R417	22R	RES 22 OHM 1/16W 5% 0402 SMD	Standard	Digikey	311-22JRCT-ND	Hub
106	1	R418	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
107	1	R419	15k	RES 15.0K OHM 1/16W 1% 0402 SMD	Standard	Digikey	311-15.0KLRCT-ND	Hub
108	1	S1	SPST	SWITCH TACTILE SPST-NO 0.02A 15V	Standard	Digikey	P8079STB-ND	LP
109	1	S2	SPST	SWITCH TACTILE SPST-NO 0.02A 15V	Standard	Digikey	P8079STB-ND	LP
110	1	S3	SPST	SWITCH TACTILE SPST-NO 0.02A 15V	Standard	Digikey	P8079STB-ND	LP
111	1	S5	SPST	SWITCH TACTILE SPST-NO 0.02A 15V	Standard	Digikey	P8079STB-ND	LP
112	0	U401	TPS2041B_DBV_5	IC PWR DIST SWITCH SNGL SOT23-5	TI	Digikey	296-21263-1-ND	Hub
113	1	U402	TPS62237DRY	IC REG BUCK SYNC 3.3V 0.5A 6SON	TI	Digikey	296-25630-1-ND	Hub
114	0	U403	TPS2041B_DBV_5	IC PWR DIST SWITCH SNGL SOT23-5	TI	Digikey	296-21263-1-ND	Hub
115	1	U404	TPD2E001DRLR	IC ESD-PROT ARRAY 2CH SOT-5	TI	Digikey	296-21883-1-ND	Hub
116	1	U6	MSP430F529IPNR	IC MCU 16BIT 128K FLASH 80LQFP	TI	Digikey	296-27306-1-ND	LP

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