

# Bill of Materials

TI DESIGN

TIDM-1004

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	PCB1	Printed Circuit Board	Printed Circuit Board	Any	CAPTIVATE-FR2633			
2	2	C1, C2	22 pF	CAP, CERM, 22 pF, 50 V, +/- 5%, COG/NP0, 0402	MuRata	GRM1555C1H220JA01D			402
3	1	C3	0.1uF	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	TDK	C1005X5R1A104K	1844111		402
4	1	C4	1 uF	CAP, CERM, 1 uF, 10 V, +/-10%, X5R, 0603	TDK	C1806X5R1A105K	1844204		603
5	1	C5	1000pF	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	TDK	C1005X7R1H102K	1907278		402
6	1	C6	4.7 uF	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X5R, 0603	TDK	CGB3B1X5R1A475K055AC			603
7	2	D1, D2	Green	LED, Green, SMD	Lite-On	LTST-C190GKT	859-LTST-C190GKT	SMD	
8	2	FID1, FID3	Fiducial mark. There is nothing to buy or mount.	Fiducial mark. There is nothing to buy or mount.	N/A	N/A			
9	4	H1, H2, H3, H4	Bumpom, Cylindrical, 0.312 X 0.200, Black	Bumpom, Cylindrical, 0.312 X 0.200, Black	3M	SJ61A1	517-SJ-61A1	Bumpom, Cylindrical, 0.312 X 0.200, Black	
10	1	J2	Connector, Female, 10-Pin, 2 row, Right Angle	Connector, Female, 10-Pin, 2 row, Right Angle	Samtec	SSW-110-22-F-D-RA		Connector, Female, 10-Pin, 2 row, Right Angle	
11	1	J3	Header, 100mil, 3x1, Gold, TH	Header, 100mil, 3x1, Gold, TH	Samtec	HTSW-103-07-G-S		Header, 100mil, 3x1, Gold, TH	
12	3	J4, J5, J7	Header, 100mil, 2x1, Gold, TH	Header, 100mil, 2x1, Gold, TH	Samtec	HTSW-102-07-G-S		Header, 100mil, 2x1, Gold, TH	
13	1	J6	Header, 100mil, 6x2, Gold, TH	Header, 100mil, 6x2, Gold, TH	Samtec	TSW-106-07-G-D		Header, 100mil, 6x2, Gold, TH	
14	1	J10	CapThelite Processor-Side Connector, 3x16, 100mil, TH, RA, F, MSP-EXP430FR2633	CapThelite Processor-Side Connector, 3x16, 100mil, TH, RA, F, MSP-EXP430FR2633	Harting	09 28 248 6921	A32306-ND		
15	2	R1, R2	2.2 k	RES, 2.2 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04022K20JNED	71-CRCW0402J-2.2K-E3		402
16	2	R3, R4	390 ohm	RES, 390 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402390RJNED	71-CRCW0402J-390-E3		402
17	1	R5	47k ohm	RES, 47k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040247K0JNED	1514553		402
18	16	R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21		470 RES, 470, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402470RJNED	71-CRCW0402J-470-E3		402
19	1	R22	10 k	RES, 10 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040210K0JNED	71-CRCW0402J-10K-E3		402
20	1	S1	Switch, Tactile, SPST-NO, 0.02A, 15V, TH	Switch, Tactile, SPST-NO, 0.02A, 15V, TH	Panasonic	EVQ-21505R	667-EVQ-21505R		
21	10	SH-J1, SH-J2, SH-	Shunt, 100mil, Flash Gold, Black	Shunt, 100mil, Flash Gold, Black	Solutions	SPC02SYAN		Shunt, 100mil, Flash Gold, Black	
22	1	U1	MSP430FR2633	MSP430 Captivate Microcontroller	Texas Instruments	MSP430FR2633RHB			
23	1	Y1	Crystal, 32.768 KHz, 12.5 pF	Crystal, 32.768 KHz, 12.5 pF, SMD	Epson	FC-135-32.7680KA-A3	732-FC135-32.76KAA3	SMD	
24	0	J1	Header, 100mil, 10x1, Gold, TH	Header, 100mil, 10x1, Gold, TH	Samtec	TSW-110-07-G-S		Header, 100mil, 10x1, Gold, TH	