

# Bill of Materials

TI DESIGNS

TIDA-00424

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part(DigiKey)
1	2	C1, C33	1uF	Film, 16V, 20%	Panasonic	ECPU1C105MA5	PCF1132CT-ND
2	25	C2, C3, C8, C10, C14, C18, C1	0.1uF	Ceramic, X7R, 16V, 10%	TDK	C1608X7R1C104K	445-1317-1-ND
3	37	C4, C5, C11, C12, C15, C16, C	1uF	Ceramic, X7R, 16V, 10%	TDK	C1608X7R1C105K	445-1604-1-ND
4	13	C6, C13, C17, C44, C69, C70,	10uF	Ceramic, X5R, 10V, 10%	Kemet	C0805C106K8PACTU	399-4925-1-ND
5	1	C9	560pF	Ceramic, COG/NP0, 50V, 5%	TDK	C1608C0G1H561J	445-1290-1-ND
6	16	C43, C49, C50, C54, C56, C60	0.01uF	CAP CER 10000PF 50V X7R 10% 0603, C	TDK	C1608X7R1H103K	445-1311-1-ND
7	1	C68	10uF	Ceramic, X5R, 16V, 10%	MuRata	GRM21BR61C106KE15L	490-3886-1-ND
8	1	C73	1800pF	Ceramic, COG/NP0, 50V, 5%	TDK	C1608C0G1H182J	445-1296-1-ND
9	1	C74	0.01uF	Ceramic, COG/NP0, 25V, 5%	TDK	C1608C0G1E103J	445-2664-1-ND
10	2	C109, C113	0.22uF	Ceramic, X7R, 16V, 10%	AVX	0805YC224KAT2A	478-1400-1-ND
11	2	C114, C115	15pF	Ceramic, COG/NP0, 50V, 5%	AVX	06035A150JAT2A	478-1165-1-ND
12	4	C116, C117, C118, C119	0.1uF	Ceramic, X7R, 16V, 5%	AVX	0603YC104JAT2A	478-3726-1-ND
13	1	C40	47uF	CAP TANT 47uF 10V 10% SMD	Vishay-Dale	293D476X9010B2TE3	718-1153-1-ND
14	5	D1, D2, D3, D5, D6		LED TOPLED 570NM GREEN CLR SMD, T	Lite-On Inc	LTST-C170GKT	160-1179-1-ND
15	1	D4	0.34V	Vr = 20V, Io = 1A, Vf = 0.45V	ON Semiconductor	MBR120VLSFT1G	MBR120VLSFT1GOSCT-ND
16	2	D7, D8		Zener Diode	Littelfuse	PGB1010603MR	F2594TR-ND
17	1	J1		EDGE-LAUNCH BNC 75-ohm GOLD	Trompeter	UCBJE20-1	N/A
18	2	J2, J8	2x3	CONN HEADER 6POS .100 DUAL TIN	Samtec Inc.	TSW-103-07-T-D	SAM1034-03-ND
19	5	J3, J4, J5, J6, J7	50 Ohm	Connector, SMT, End launch SMA 50 Ohm	Emerson Network Power	142-0701-806	J716-ND
20	1	J9		USB 1.1, Right Angle, Thru-Hole, B Type, F	Tyco	292304-1	A31725-ND
21	17	JP1, JP2, JP3, JP4, JP5, JP6, JP	1x2	Header, TH, 100mil, 1x2, Tin plated, 230 mi	Samtec Inc.	TSW-102-07-T-S	SAM1035-02-ND
22	1	JP9	1x3	Header, TH, 100mil, 1x3, Tin plated, 230 mi	Samtec Inc.	TSW-103-07-T-S	SAM1035-03-ND
23	1	JP11	1x4	Header, TH, 100mil, 1x4, Tin plated, 230 mi	Samtec Inc.	TSW-104-07-T-S	SAM1035-04-ND
24	5	JP17,JP1,JP3, JP4,JP18	1X2, 0.1"	Jumper, Shunt	Sullins	SPC02SYAN	S9001-ND
25	11	L1, L2, L3, L4, L5, L6, L7, L8, L		250mA, 220 ohm	Murata	BLM15HB221SN1D	490-4001-2-ND
26	4	L12, L13, L14, L15	5.6uH	Inductor, [Technology], [Material], xxuH, xxA	Murata	LQW18AN5N6D00D	490-1164-6-ND
27	5	R1, R7, R9, R48, R84	10.0k, 10K	1%, 0.1W	Vishay-Dale	CRCW060310k0FKEA	541-10.0kHCT-ND
28	16	R2, R5, R6, R8, R10, R13, R19	33	5%, 0.1W	Vishay-Dale	CRCW060333R0JNEA	541-33GCT-ND
29	4	R3, R44, R51, R53	0	5%, 0.1W	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND

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30	1	R4	75.0	1%, 0.125W	Vishay-Dale	CRCW080575R0FKEA	541-75.0CCT-ND
31	1	R20	5K	POT 5.0K 4MM CERM SQ TOP SMD	Vishay-Dale	ST4ETA502	ST4ETA502CT-ND
32	2	R39, R41	4.75k	1%, 0.1W	Vishay-Dale	CRCW06034k75FKEA	541-4.75kHCT-ND
33	1	R47	17.4k	1%, 0.125W	Panasonic	ERJ-6ENF1742V	P17.4KCCT-ND
34	1	R52	3.0k	1%, 0.1W	Vishay-Dale	CRCW06033K00FKEA	541-3.00kHCT-ND
35	17	R55, R57, R58, R59, R63, R64	49.9	1%, 0.1W, RES, 49.9 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060349R9FKEA	541-49.9HCT-ND
36	1	R56	1.82k	1%, 0.1W	Vishay-Dale	CRCW06031k82FKEA	541-1.82kHCT-ND
37	4	R60, R66, R73, R78	100	0.1%, 0.1W	Yageo America	RT0603BRD07100RL	RT0603BRD07100RL-ND
38	4	R61, R67, R74, R79	750	0.5%, 0.1W	Yageo America	RT0603DRE07750RL	RT0603DRE07750RL-ND
39	4	R62, R68, R69, R82	150	1%, 0.1W	Vishay-Dale	CRCW0603150RFKEA	541-150HCT-ND
40	1	R80	0	5%, 0.25W	Vishay-Dale	CRCW12060000Z0EA	541-0.0ECT-ND
41	1	R81	348	1%, 0.1W	Vishay-Dale	CRCW0603348RFKEA	541-348HCT-ND
42	1	R83	1.10k	1%, 0.1W	Vishay-Dale	CRCW06031k10FKEA	541-1.10kHCT-ND
43	1	R85	475	1%, 0.1W	Vishay-Dale	CRCW0603475RFKEA	541-475HCT-ND
44	2	R86, R87	47k	5%, 0.1W	Vishay-Dale	CRCW060347K0JNEA	541-47kGCT-ND
45	2	R88, R89	22	5%, 0.1W	Vishay-Dale	CRCW060322R0JNEA	541-22GCT-ND
46	2	SW1, SW3		SW TAC SPST 50MA 12VDC 6X6MM SMD	Tyco	FSM2JSMA	450-1130-ND
47	12	TP1, TP3, TP16, TP17, TP18,	Yellow	Test Point, TH, Miniature, Yellow	Keystone Electronics	5004	5004K-ND
48	4	TP2, TP28, TP30, TP31	Red	Test Point, TH, Miniature, Red	Keystone Electronics	5000	5000K-ND
49	8	TP4, TP5, TP6, TP7, TP8, TP9	Black	Test Point, TH, Miniature, Black	Keystone Electronics	5001	5001K-ND
50	7	TP12, TP13, TP14, TP15, TP2	Orange	Test Point, TH, Miniature, Orange	Keystone Electronics	5003	5003K-ND
51	1	U1		Multi-Format Sync Separator	Texas Instruments	LMH1981MT	LMH1981MT-ND
52	1	U2		Quad SPDT Analog Switch	Texas Instruments	TS3A5018PWR	296-27119-5-ND
53	1	U3		3G/HD/SD Video Clock and Timing Genera	Texas Instruments	LMH1983SQ	LMH1983SQETR-ND
54	1	U4	LMP7711MK	1.8V Precison, Single Low Noise CMOS Int	Texas Instruments	LMP7711MK	LMP7711MKTR-ND
55	4	U5, U6, U7, U8		3 Gbps HD/SD SDI Cable Driver	Texas Instruments	LMH0302SQ	LMH0302SQETR-ND
56	1	U9		Micropower 800mA Low Noise Ceramic St	Texas Instruments	LP3878MR-ADJ	LP3878MR-ADJ-ND

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57	1	U10		8-Bit AVR Microcontroller with 64K Bytes of	Atmel	AT90USB1287-AU-ND	AT90USB1287-AU-ND
58	1	X1		27 MHz +/-150 ppm APR, +/-50ppm stability	Abracon	ASVV-27.000MHZ-N152-T	535-9345-2-ND
59	1	X2		27 MHz +/-50 ppm APR, +/-50ppm stability	CTS Frequency Controls	357LB3I027M0000	CTX634TR-ND
60	1	Y1		8 MHz Crystal Oscillator	Abracon	ABM3-8.000MHZ-D2Y-T	535-10630-1-ND
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