

Bill of Materials

TI DESIGNS

TIDA-01226

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	47	C6,C49,C75,C190,C191,C225,C226,C227,C229,C233,C234,C236,C237,C238,C248,C250,C286,C287,C288,C308,C322,C326,C334,C346,C368,C369,C378,C379,C380,C381,C382,C383,C387,C388,C389,C390,C392,C393,C394,C395,C396,C397,C398,C420,C423,C424,C427	0.1uF	0.10µF ±10% 16V X7R Ceramic Capacitor	Yageo	CC0402KRX7R78B104	311-1338-1-ND	0402	
2	75	C79,C89,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C103,C104,C105,C106,C107,C108,C109,C110,C111,C112,C113,C114,C115,C116,C117,C118,C119,C120,C121,C122,C123,C124,C125,C126,C127,C128,C130,C131,C132,C146,C175,C176,C177,C178,C183,C186,C187,C188,C189,C194,C195,C196,C197,C198,C199,C202,C209,C211,C213,C215,C219,C220,C221,C222,C223,C224,C228,C276,C277,C278,C279	0.1uF	0.10µF ±10% 6.3V X5R Ceramic Capacitor	Yageo	CC0201KRX5R58B104	311-1408-1-ND	0201	
3	3	C102,C129,C310	0.01uF	10000pF ±10% 25V X7R Ceramic Capacitor	Yageo	CC0402KRX7R88B103	311-1337-1-ND	0402	
4	3	C179,C323,C412	10uF	10µF ±10% 25V X5R Ceramic Capacitor	Yageo	CC0805KX5R88B106	311-1869-1-ND	0805	
5	15	C180,C181,C184,C193,C200,C206,C207,C208,C210,C212,C214,C218,C249,C273,C285	10uF	10µF ±20% 6.3V X5R Ceramic Capacitor	Yageo	CC0603MRX5R58B106	311-1448-1-ND	0603	
6	16	C182,C185,C192,C201,C203,C235,C245,C247,C274,C289,C320,C360,C367,C384,C386,C391	1uF	1µF ±10% 10V X5R Ceramic Capacitor	Yageo	CC0402KRX5R68B105	311-1439-1-ND	0402	
7	2	C216,C217	18pF	18pF ±5% 50V C0G, NP0 Ceramic Capacitor	Yageo	CC0402JRNPO9B180	311-1415-1-ND	0402	
8	9	C230,C231,C232,C239,C240,C241,C270,C417,C419	0.1uF	0.10µF ±10% 25V X5R Ceramic Capacitor	Yageo	CC0402KRX5R88B104	311-1697-1-ND	0402	
9	2	C262,C410	0.1uF	0.10µF ±10% 50V X7R Ceramic Capacitor	Yageo	CC0603KRX7R98B104	311-1344-1-ND	0603	
10	3	C263,C305,C324	10uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1206 10uF 50volt X5R +/-10%	Yageo	CC1206KKX7R98B106	GRM31CR61H106KA12L	1206	
11	1	C264	220uF	Aluminum Electrolytic Capacitors - SMD 50 Volts 220uF 20% 10x10.3	Lelon	VZH221M1HTR-1010	140-VZH221M1HTR1010	EC-10	
12	1	C266	120pF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 120pF 50V NP0 5%	Yageo	CC0402JRNPO9B121	603-CC402JRNPO9B121	0402	(6 (c); 7 (l). Date: 03/31/16
13	5	C268,C271,C269,C416,C418	22uF	22µF ±10% 25V X5R Ceramic Capacitor	Murata	GRM32ER61E226KE15L	490-3889-1-ND	1210	
14	4	C272,C300,C329,C333	10uF	10µF ±20% 10V X5R Ceramic Capacitor	Yageo	CC0603MRX5R68B106	311-1817-1-ND	0603	
15	1	C283	0.22uF	0.22µF ±10% 25V X7R Ceramic Capacitor	Yageo	CC0603KRX7R88B224	311-1803-1-ND	0603	
16	10	C301,C302,C303,C304,C336,C337,C348,C349,C307,C313	22uF	22µF ±20% 35V X5R Ceramic Capacitor	TDK	C3216X5R1V226M160AC	445-8045-1-ND	1206	
17	6	C306,C327,C328,C332,C312,C319	1uF	1µF ±10% 50V X5R Ceramic Capacitor	Yageo	CC0603KRX5R98B105	311-1787-1-ND	0603	
18	1	C309	1200pF	1200pF ±5% 50V C0G, NP0 Ceramic Capacitor	Yageo	CC1206JRNPO9B122	603-CC126JRNPO9B122	1206	(6 (c); 7 (l). Date: 03/31/16
19	1	C311	15pF	15pF ±5% 50V C0G, NP0 Ceramic Capacitor	Yageo	CC0402JRNPO9B150	311-1017-1-ND	0402	
20	1	C317	0.47uF	0.47µF ±10% 50V X5R Ceramic Capacitor	Yageo	CC0603KRX7R98B474	UMK107ABJ474KA-T	0603	
21	1	C321	4300pF	4300pF ±5% 50V U2J Ceramic Capacitor	Murata	GRM1887U1H432JA01	490-6397-1-ND	0603	
22	1	C330	2.2uF	2.2µF ±20% 6.3V X5R Ceramic Capacitor	Yageo	CC0402MRX5R58B225	311-1442-1-ND	0402	
23	1	C331	4.7uF	4.7µF ±20% 6.3V X5R Ceramic Capacitor	Yageo	CC0402MRX5R58B475	311-1730-1-ND	0402	
24	4	C340,C341,C353,C354	22uF	22µF ±20% 6.3V X5R Ceramic Capacitor	Yageo	CC0603MRX5R58B226	311-1815-1-ND	0603	
25	2	C342,C352	470pF	470pF ±10% 50V X7R Ceramic Capacitor	Yageo	CC0603KRX7R98B471	311-1078-1-ND	0603	
26	2	C358,C363	1uF	1µF ±10% 25V X5R Ceramic Capacitor	Yageo	CC0402KRX5R88B105	311-1698-1-ND	0402	
27	1	C370	1000pF	CAP CER 1000PF 50V X7R 0603	Yageo	CC0603KRX7R98B102	311-1080-1-ND	0603	
28	1	C411	0.012uF	0.012µF ±10% 50V X7R Ceramic Capacitor	Yageo	CC0603KRX7R98B123	311-1807-1-ND	0603	
29	1	C413	22uF	22µF ±20% 10V X5R Ceramic Capacitor	Yageo	CC0805MKX5R68B226	311-1900-1-ND	0805	
30	2	C414,C415	4.7uF	4.7µF ±10% 25V X7R Ceramic Capacitor	Yageo	CC0805KX7R88B475	311-1885-1-ND	0805	
31	1	C425	3300pF	3300pF ±10% 50V X7R Ceramic Capacitor	Yageo	CC0402KRX7R98B332	311-1034-1-ND	0402	
32	36	ED1,ED2,ED3,ED4,ED5,ED6,ED7,ED8,ED9,ED10,ED11,ED12,ED13,ED14,ED15,ED16,ED19,D25,D26,ED21,ED22,ED17,ED18,ED20,ED23,ED24,ED25,ED26,ED27,ED36,ED37,ED38,ED39,ED40,ED41,ED42	PESD5V0U1BL.315	TVS DIODE 5VWM SOD882	NXP	PESD5V0U1BL.315	568-4803-1-ND	SOD882	
33	1	D32	BAT54CW	DIODE ARRAY SCHOTTKY 30V SOT323	Diodes Inc.	BAT54CW	568-1613-1-ND	SOT323	
34	11	D33,D34,D36,D44,D45,D46,D56,D57,D66,D67,D43	16-213SYGC/S530-E2/TR8	LED YELLOW-GRN CLEAR 0402 SMD	Everlight	16-213SYGC/S530-E2/TR8	16-213SYGC/S530-E3/TR8-ND	0402	
35	1	D51	MBR0540	DIODE SCHOTTKY 40V 500MA SOD123	ON Semi	MBR0540	MBR0540T1GOSCT-ND	SOD123	
36	3	D53,D54,D55	ESDA18-1K	TVS DIODE 15VWM 34VC SOD523	STMicroelectronics	ESDA18-1K	497-10767-1-ND	SOD523	
37	2	D58,D59	B0530WS-7	DIODE SCHOTTKY 30V 500MA SOD323	Diodes Inc.	B0530WS-7	B0530WS-FDICT-ND	SOD323	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
38	2	D68,D69	SS0540	DIODE SCHOTTKY 40V 500MA SOD123	PANJIT	SS0540	B0540W-FDICT-ND	SOD123	
39	19	FB1,FB2,FB3,FB5,FB6,FB8,FB9,FB10,FB11,FB12,FB30,FB31,FB32,FB33,L5,L6,L7,L8,L9	GMLB-160808-0070S-N1	FERRITE BEAD 70 OHM 0603 1LN	MAG.LAYERS	GMLB-160808-0070S-N1	490-5253-1-ND	0603	
40	6	FB20,FB22,FB23,FB24,FB25,FB26	GMLB-100505-0120P-N8	FERRITE BEAD 120 OHM 0402 1LN	MAG.LAYERS	GMLB-100505-0120P-N8	490-4004-1-ND	0402	
41	1	J11	TU3007WNR-04	4 Positions Header, Shrouded Connector 0.098" (2.50mm) Through Hole, Right Angle Tin	TYU	TU3007WNR-04	455-1627-ND		
42	1	J18	47151-1101	HDMI Receptacle Connector 19 Position Surface Mount, Right Angle, Horizontal	Molex	47151-1101			
43	1	J21	TU1501WNV-06	6 Positions Header, Shrouded Connector 0.059" (1.50mm) Through Hole Tin	TYU	TU1501WNV-06	455-1661-ND		
44	1	J22	104060-8017	CONN FFC FPC 80POS 0.50MM R/A	Molex	104060-8017			
45	1	J23	TU1501WNR-03S	3 Positions Header, Shrouded Connector 0.059" (1.50mm) Surface Mount, Right Angle Tin	TYU	TU1501WNR-03S	455-1694-2-ND		
46	4	J24,J43,J32,J33	TU1501WNV-03	3 Positions Header, Shrouded Connector 0.059" (1.50mm) Through Hole Tin	TYU	TU1501WNV-03	455-1658-ND		
47	1	J26	TU1252WNR-08S	8 Positions Header, Shrouded Connector 0.049" (1.25mm) Surface Mount, Right Angle Tin	TYU	TU1252WNR-08S	WM7626TR-ND		
48	1	J28	IDI-D43B2	CON PWR JCK 2.5 X 6.0MM W/SHLD	HCH	IDI-D43B2	CP-047BH-ND		
49	1	J34	CH87142V200	14 Positions Header, Shrouded Connector 0.100" (2.54mm) Through Hole Gold	Cvilux	CH87142V200	WM6547-ND		
50	1	J35	TU5005WNV-1x02	2 Positions Header, Unshrouded, Breakaway Connector 0.100" (2.54mm) Through Hole Tin	TYU	TU5005WNV-1x02	WM8072-ND		
51	3	J40,J41,J42	78048-1043	Headers & Wire Housings PCB HEADERS	Molex	78048-1043			
52	1	J45	TU1252WNR-02S	2 Positions Header, Shrouded Connector 0.049" (1.25mm) Surface Mount, Right Angle Tin	TYU	TU1252WNR-02S	WM7620TR-ND		
53	1	J47	MU-05F4-24	USB - mini B USB 2.0 OTG Receptacle Connector 5 Position Surface Mount, Right Angle, Horizontal	OBJECTIVE	MU-05F4-24	WM5461CT-ND		
54	1	J48	TU2001WNV-06	6 Positions Header, Shrouded Connector 0.079" (2.00mm) Through Hole Tin	TYU	TU2001WNV-06	455-1708-ND		
55	1	L10	15uH	FIXED IND 15UH 6.25A 45 MOHM SMD	MAG.LAYERS	MMD-10DZ-150M-M1	SRP1038A-150MCT-ND		
56	1	L11	2.2uH	Fixed Inductors XFL3012 Low DCR Ind 2.2 uH 20 % 1.9 A	MAG.LAYERS	MLPS-3015-2R2	994-XFL3012-222MEC		
57	1	L14	1.5uH	FIXED IND 1.5UH 23A 3.16 MOHM	MAG.LAYERS	MMD-12EZ-1R5M-V1	283-4548-1-ND		
58	1	L15	10uH	FIXED IND 10UH 1.8A 243 MOHM SMD	MAG.LAYERS	MMD-04BZ-100M-S1	SRP4020TA-100MTR-ND		
59	2	L16,L18	3.3uH	FIXED IND 3.3UH 6A 30 MOHM SMD	MAG.LAYERS	MMD-06CZ-3R3M-V1	541-1009-1-ND		
60	1	L21	CMM21T-900M-N	CMC 90 OHM 300MA 2 LN SMD	Chilisin	CMM21T-900M-N	445-5193-1-ND		
61	2	Q4,Q7	2N7002P,215	MOSFET N-CH 60V 0.36A SOT-23	NXP	2N7002P,215	568-5818-1-ND	SOT23	
62	1	Q8	DMN26D0UT	MOSFET N-CH 20V 230MA SOT523	Diodes Inc.	DMN26D0UT	DMN26D0UT-7DICT-ND	SOT523	
63	1	Q15	CSD17309Q3	MOSFET N-CH 30V 60A 8SON	Texas Instruments	CSD17309Q3	296-27250-1-ND	8SON	
64	4	Q16,Q17,Q18,Q19	CSD17501Q5A	MOSFET N-CH 30V 100A 8SON	Texas Instruments	CSD17501Q5A	296-28437-1-ND	8SON	
65	2	Q20,Q21	BCP68	TRANS NPN 20V 1A SOT223	NXP	BCP68	568-6107-1-ND	SOT223	
66	2	Q22,Q23	MMBT2222ALT1G	TRANS NPN 40V 0.6A SOT23	ON Semi	MMBT2222ALT1G	MMBT2222ALT1GOSCT-ND	SOT23	
67	6	RP1,RP2,RP3,RP4,RP5,RP6	YC124-JR-0733R	RES ARRAY 4 RES 33 OHM 0804	Yageo	YC124-JR-0733R	YC124J-33CT-ND	0402*4	
68	45	R1,R2,R6,R139,R149,R162,R172,R173,R175,R176,R179,R209,R210,R349,R350,R351,R365,R367,R432,R433,R447,R612,R651,R652,R661,R662,R665,R666,R667,R668,R670,R671,R677,R679,R680,R685,R693,R699,R704,R706,R708,R769,R770,R795,R729	10K	RES SMD 10K OHM 5% 1/16W 0402	Yageo	RC0402JR-0710K	11-10KJRCT-ND	0402	
69	119	R9,R109,R116,R120,R125,R140,R141,R171,R208,R211,R234,R235,R237,R239,R241,R242,R243,R356,R358,R359,R366,R368,R376,R377,R379,R387,R388,R389,R394,R395,R396,R397,R398,R399,R400,R402,R403,R404,R406,R408,R410,R411,R412,R413,R414,R415,R416,R417,R419,R425,R427,R430,R431,R435,R451,R452,R477,R478,R487,R488,R504,R505,R521,R525,R533,R534,R537,R538,R539,R540,R541,R542,R571,R579,R583,R604,R614,R615,R623,R629,R630,R631,R632,R636,R637,R638,R640,R641,R643,R644,R646,R650,R657,R659,R663,R664,R672,R673,R674,R676,R678,R682,R683,R684,R687,R688,R696,R702,R774,R775,R778,R779,R782,R798,R654,R655,R675,R619,R621	0	RES SMD 0.00HM JUMPER 1/16W 0402	Yageo	RC0402JR-070R	311-0.0JRCT-ND	0402	
70	21	R12,R51,R52,R67,R68,R69,R71,R72,R73,R74,R75,R76,R121,R122,R123,R164,R182,R184,R186,R344,R584	30.1	RES SMD 30.1 OHM 1% 1/16W 0402	Yageo	RC0402FR-0730R1	YAG3111CT-ND	0402	
71	22	R35,R36,R37,R60,R63,R64,R65,R117,R118,R119,R142,R143,R169,R183,R185,R189,R345,R373,R393,R401,R436,R656	100K	RES SMD 100K OHM 5% 1/16W 0402	Yageo	RC0402JR-07100K	311-100KJRCT-ND	0402	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
72	2	R114,R115	43	RES SMD 43 OHM 5% 1/16W 0402	Yageo	RC0402JR-0743R	311-43JRCT-ND	0402	
73	6	R124,R126,R127,R136,R206,R207	7.5K	RES SMD 7.5K OHM 1% 1/16W 0402	Yageo	RC0402FR-077K5	311-7.5KLRCT-ND	0402	
74	1	R348	300K	RES SMD 300K OHM 1% 1/16W 0402	Yageo	RC0402FR-07300K	311-300KLRCT-ND	0402	
75	3	R352,R524,R474	47K	RES SMD 47K OHM 5% 1/16W 0402	Yageo	RC0402JR-0747K	311-47KJRCT-ND	0402	
76	1	R355	2M	RES SMD 2M OHM 5% 1/16W 0402	Yageo	RC0402JR-072M	YAG3295CT-ND	0402	
77	1	R357	22K	RES SMD 22K OHM 1% 1/16W 0402	Yageo	RC0402FR-0722K	311-22.0KLRCT-ND	0402	
78	6	R360,R361,R363,R364,R362,R622	33	RES SMD 33 OHM 5% 1/16W 0402	Yageo	RC0402JR-0733R	311-33JRCT-ND	0402	
79	1	R375	4.75K	RES SMD 4.75K OHM 1% 1/16W 0402	Yageo	RC0402FR-074K75	311-4.75KLRCT-ND	0402	
80	2	R378,R785	1M	RES SMD 1M OHM 1% 1/16W 0402	Yageo	RC0402FR-071M	311-1.00MLRCT-ND	0402	
81	1	R380	1.5K	RES SMD 1.5K OHM 1% 1/16W 0402	Yageo	RC0402FR-071K5	311-1.50KLRCT-ND	0402	
82	1	R381	3K	RES SMD 3K OHM 1% 1/16W 0402	Yageo	RC0402FR-073K	311-3KLRCT-ND	0402	
83	6	R383,R385,R613,R616,R689,R691	180	RES SMD 180 OHM 5% 1/16W 0402	Yageo	RC0402JR-07180R	311-180JRCT-ND	0402	
84	5	R437,R479,R526,R527,R528	390	RES SMD 390 OHM 5% 1/16W 0402	Yageo	RC0402JR-07390R	311-390JRCT-ND	0402	
85	1	R443	470K	RES SMD 470K OHM 1% 1/16W 0402	Yageo	RC0402FR-07470K	311-470KLRCT-ND	0402	
86	5	R472,R575,R596,R600,R606	0	RES SMD 0.0 OHM JUMPER 1/4W 1206	Yageo	RC1206JR-070R	311-0.0ERCT-ND	1206	
87	2	R480,R471	215K	RES SMD 215K OHM 1% 1/16W 0402	Yageo	RC0402FR-07215K	YAG3055CT-ND	0402	
88	1	R482	47.5K	RES SMD 47.5K OHM 1% 1/16W 0402	Yageo	RC0402FR-0747K5	311-47.5KLRCT-ND	0402	
89	4	R529,R530,R635,R749	2.2K	RES SMD 2.2K OHM 1% 1/16W 0402	Yageo	RC0402FR-072K2	311-2.20KLRCT-ND	0402	
90	2	R570,R572	3.9	RES SMD 3.9 OHM 5% 1/10W 0603	Yageo	RC0603JR-073R9	311-3.9GRCT-ND	0603	
91	1	R574	30K	RES SMD 30K OHM 1% 1/16W 0402	Yageo	RC0402FR-0730K	311-30.0KLRCT-ND	0402	
92	1	R576	100K	THERMISTOR NTC 100K OHM 1% 0402	THINKING	TSM0A104F39H1RZ	490-4803-2-ND	0402	
93	1	R578	3.9	Thick Film Resistors - SMD 3.9 OHM 5%	Yageo	RC1210JR-073R9	603-RC1210JR-073R9L	1210	
94	2	R580,R582	10	RES SMD 10 OHM 1% 1/16W 0402	Yageo	RC0402FR-0710R	311-10.0LRCT-ND	0402	
95	3	R585,R586,R587	0	RES SMD 0.0OHM JUMPER 1/10W 0603	Yageo	RC0603FR-070R	311-0.0HRCT-ND	0603	
96	2	R591,R592	10K	RES SMD 10K OHM 1% 1/16W 0402	Yageo	RC0402FR-0710K	311-10.0KLRCT-ND	0402	
97	1	R595	0.009	Current Sense Resistors - SMD 3watts 009ohms 1%	Ralec	LR2512-23R009F4	71-WSLP25129L000FEA	2512	(7(c) i). Date: 05/01/16
98	2	R598,R602	10	RES SMD 10 OHM 1% 1/10W 0603	Yageo	RC0603FR-0710R	311-10.0HRCT-ND	0603	
99	1	R611	300	RES SMD 300 OHM 5% 1/16W 0402	Yageo	RC0402JR-07300R	311-300JRCT-ND	0402	
100	8	R743,R761,R762,R763,R765,R767,R768,R797	3.3K	RES SMD 3.3K OHM 5% 1/16W 0402	Yageo	RC0402JR-073K3	311-3.3KJRCT-ND	0402	
101	1	R744	442	RES SMD 442 OHM 1% 1/10W 0603	Yageo	RC0603FR-07442R	311-442HRCT-ND	0603	
102	1	R745	140K	RES SMD 140K OHM 1% 1/10W 0603	Yageo	RC0603FR-07140K	311-140KHRCT-ND	0603	
103	1	R747	30.9K	RES SMD 30.9K OHM 1% 1/16W 0402	Yageo	RC0402FR-0730K9	YAG3110CT-ND	0402	
104	1	R793	75K	RES SMD 75K OHM 1% 1/16W 0402	Yageo	RC0402FR-0775K	311-75KLRCT-ND	0402	
105	1	SW21	STS-D5	SWITCH TACTILE SPST-NO 0.05A 12V	HCH	STS-D5	EG4375CT-ND		
106	1	SW28	DS_13P_S044	SWITCH SLIDE SPDT 5A 120V	Dawning	DS_13P_S044	EG2478-ND		
107	1	U11	CDCLVC1102PW	IC CLK BUFFER 1:2 250MHZ 8TSSOP	Texas Instruments	CDCLVC1102PW	296-27610-1-ND	8-TSSOP	
108	12	U15,U25,U26,U36,U37,U50,U51,U52,U53,U54,U55,U56	SN74AUP1G07DCKR	IC BUFF/DVR NON-INV 3.6V SC705	Texas Instruments	SN74AUP1G07DCKR	296-18256-1-ND	SC70-5	
109	2	U16,U18	W25Q64FVSSIG	IC FLASH 64MBIT 104MHZ 8SOIC	Winbond	W25Q64FVSSIG	W25Q64FVSSIG-ND	8-SOIC	
110	1	U20	LM1117IMPX-3.3/NOPB	IC REG LDO 3.3V 0.8A SOT223	Texas Instruments	LM1117IMPX-3.3/NOPB	LM1117IMPX-3.3/NOPBCT-ND	SOT-223	
111	1	U21	24LC02	IC EEPROM 2KBIT 400KHZ 8SOIC	Microchip	24LC02	24LC024T-I/SNCT-ND	8-SOIC	
112	1	U22	TPS2061DBV	IC SWITCH PWR DIST SINGL SOT23-5	Texas Instruments	TPS2061DBV	296-23968-1-ND	SOT23-5	
113	1	U23	ITE6801FN	HDMI Receiver	ITE Tech Inc	ITE6801FN	Contact Business Unit	76-QFN	
114	1	U24	TLV70012DDC	IC REG LDO 1.2V 0.2A 5SOT	Texas Instruments	TLV70012DDC	296-27218-1-ND	SOT23-5	
115	1	U27	SN74CBTLV3257D	IC LV DUAL FET MUX/DEMUX 16SSOP	Texas Instruments	SN74CBTLV3257D	296-9135-1-ND	16-SOIC	
116	2	U29,U47	TLV70033DDC	IC REG LDO 3.3V 0.2A 5SOT	Texas Instruments	TLV70033DDC	296-27937-1-ND	SOT23-5	
117	1	U32	TPS54335ADDAR	IC REG BCK ADJ 3A SYNC 8SOPWRPAD	Texas Instruments	TPS54335ADDAR	TPS54335ADDAR-ND	8-SOIC	
118	1	U33	TLV62565DBVR	IC REG BCK ADJ 1.5A SYNC SOT23-5	Texas Instruments	TLV62565DBVR	TLV62565DBVR-ND	SOT23-5	
119	1	U34	MSP430F5514IRGC	IC MCU 16BIT 64KB FLASH 64VQFN	Texas Instruments	MSP430F5514IRGC	296-31693-1-ND	64-QFN	
120	1	U35	DLP43005DPFD	IC PMIC/LED DRIVER DLP 100HTQFP	Texas Instruments	DLP43005DPFD	296-43149-1-ND	100-HTQFP	
121	2	U39,U40	DLP3439	IC CTRLR DGRLL DPP3439 176DLP	Texas Instruments	DLP3439	296-42180-5-ND	201-VFBGA	
122	1	U44	TXS0102DCU	IC VOLT-LEVEL TRANSLATOR US8	Texas Instruments	TXS0102DCU	296-21931-1-ND	8-VSSOP	
123	2	U45,U46	SN74AVC4T774PWR	IC BUS TRANSVR 4BIT DL 16TSSOP	Texas Instruments	SN74AVC4T774PWR	296-24739-1-ND	16-TSSOP	
124	1	U48	CY7C65215-32LTXI	IC USB TO SERIAL BRIDGE 32QFN	Cypress	CY7C65215-32LTXI	CY7C65215-32LTXI-ND	32-QFN	
125	1	U49	SN74LVC1G06DCK	IC INVERTER SINGLE 1INPUT SC705	Texas Instruments	SN74LVC1G06DCK	296-8484-1-ND	SC70-5	
126	1	U62	LM2940IMP-5	IC REG LDO 5V 1A SOT223	Texas Instruments	LM2940IMP-5	LM2940IMP-5.0/NOPBCT-ND	SOT-223	
127	1	U65	SN74LVC1G08DCK	IC GATE AND 1CH 2-IMP SC-70-5	Texas Instruments	SN74LVC1G08DCK	296-11602-1-ND	SC70-5	
128	1	X3	24MHz	OSC XO 24.000MHZ CMOS SMD	YOKE	SO3225-024000-FIA-BBA-YA	535-13158-1-ND	3.2*2.5mm	
129	1	Y1	27MHz	27MHz ±30ppm Crystal 18pf 50 Ohm	YOKE	S5032B-027000-FA-16-30-YA	887-1093-1-ND	5*3.2mm	
130	0	C11,C12,C13,C14,C204,C205,C246,C275,C385	0.1uF	0.10uF ±10% 16V X7R Ceramic Capacitor		CC0402KRX7R7B8104	311-1338-1-ND	0402	
131	0	C318,C325	0.33uF	0.33uF ±10% 6.3V X5R Ceramic Capacitor	Yageo	CC0402KRX5R5B8334	311-1683-1-ND	0402	
132	0	C426	33nF	0.033uF ±10% 16V X5R Ceramic Capacitor	Yageo	CC0402KRX5R7B8333	311-1695-2-ND	0402	
133	0	D50,D52	B240A-13-F	DIODE SCHOTTKY 40V 2A SMA	Diodes Inc.	B240A-13-F	B240A-FDICT-ND	DO-214AC, SMA	
134	0	FB4,FB7	GMLB-160808-00705-N1	FERRITE BEAD 70 OHM 0603 1LN	MAG.LAYERS	GMLB-160808-00705-N1	490-5253-1-ND	0603	
135	0	FB21	GMLB-100505-0120P-N8	FERRITE BEAD 120 OHM 0402 1LN	MAG.LAYERS	GMLB-100505-0120P-N8	490-4004-1-ND	0402	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
136	0	J20	TU5005WNV-1x02	2 Positions Header, Unshrouded,	TYU	TU5005WNV-1x02	WM8072-ND		
137	0	R3,R4,R107,R108,R128,R129,R382,R384,R653,R669,R681,R694,R698,R707,R709,R790,R791,R792,R390,R374,R485,R486,R784,R617,R794,R353	10K	RES SMD 10K OHM 5% 1/16W 0402	Yageo	RC0402JR-0710K	11-10KJRCT-ND	0402	
138	0	R131,R132,R145,R148,R150,R151,R177,R178,R197,R198,R220,R221,R240,R354,R386,R392,R409,R418,R481,R489,R535,R536,R610,R618,R620,R624,R639,R658,R660,R686,R690,R692,R701,R740,R757,R758,R759,R760,R764,R766,R771,R772,R780,R781,R799,R581,R609,R695,R697,R700,R703,R705,R776,R777,R796	0	RES SMD 0.00HM JUMPER 1/16W 0402	Yageo	RC0402JR-070R	311-0.0JRCT-ND	0402	
139	0	R369,R370,R371,R372	100	RES SMD 100 OHM 5% 1/20W 0201	Yageo	RC0201JR-07100R	311-100NCT-ND	0201	
140	0	R407,R483,R788,R789	100K	RES SMD 100K OHM 5% 1/16W 0402	Yageo	RC0402JR-07100K	311-100KJRCT-ND	0402	
141	0	R608,R750	0	RES SMD 0.0 OHM JUMPER 1/4W 1206	Yageo	RC1206JR-070R	311-0.0ERCT-ND	1206	
142	0	R783	330	RES SMD 330 OHM 5% 1/16W 0402	Yageo	RC0402JR-07330R	311-330JRCT-ND	0402	
143	0	U28,U63	SN74AUP1G07DCKR	IC BUFF/DVR NON-INV 3.6V SC705	Texas Instruments	SN74AUP1G07DCKR	296-18256-1-ND	SC70-5	
144	0	R144	7.5K	RES SMD 7.5K OHM 1% 1/16W 0402	Yageo	RTT027501FTH	311-7.50KLRCT-ND	Ralec	
145	0	C284	2.2nF	2200pF ±10% 16V X7R Ceramic Capacitor	Yageo	CC0201KRX7R7BB222	311-1602-1-ND	0201	
146	0	C314,C315	22uF	22µF ±20% 35V X5R Ceramic Capacitor	TDK	C3216X5R1V226M160AC	445-8045-1-ND	1206	
147	0	J29,J30	TU5005WNV-1x03	3 Positions Header, Unshrouded	TYU	TU5005WNV-1x03	WM8073-ND		
148	0	U64	TPS3808G01DRV	IC VOLT SUPERVISOR ADJ 6SON	Texas Instruments	TPS3808G01DRV	296-23656-1-ND	6-SON	

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2018, Texas Instruments Incorporated