

# Bill of Materials

2516598  
DLPC3436 System Board

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	3	C1,C2,C3	47uF	CAP CER 47UF 10V X5R 1206	Taiyo Yuden	LMK316BJ476ML-T		1206	
2	2	C4,C5	100uF	CAP ALUM 100UF 25V 20% SMD	Panasonic	EEE-FT1E101AP		sizeD_260x260mil radial can	
3	6	C6,C10,C15,C16,C17,C18	10uF	CAP CER 10UF 35V 10% X5R 1206 SMD	Samsung	CL31A106KBHNNNE		1206	
4	30	C7,C14,C27,C36,C37,C41, C42,C52,C53,C56,C57,C58, C59,C60,C61,C62,C63,C64, C68,C69,C70,C71,C72,C73, C74,C75,C76,C77,C86,C88	0.1uF	0.10uF 50V Ceramic Capacitor X7R 0402	TDK	CGA2B3X7R1H104K050BB		402	
5	1	C8	3300pF	3300pF 25V Ceramic Capacitor X7R 0805	Murata	GRM216R71E332KA01D		805	
6	1	C9	56pF	56pF 50V Ceramic Capacitor COG, NPO 0805	Yageo	CC0805JRNPO9BN560		805	
7	1	C11	100uF	CAP CER 100UF 6.3V X5R 1206	Samsung	CL31A107MQHNNNE		1206	
8	1	C12	680pF	680pF 50V Ceramic Capacitor X7R 0805	Yageo	CC0805KRX7R9BB681		805	
9	1	C13	39.0nF	0.039uF 10V Ceramic Capacitor X5R 0402	Murata	GRM155R61A393KA01D		402	
10	1	C19	22pF	CAP CER 22PF 50V 5% NPO 0402	Murata	GRM1555C1H220JA01D		402	
11	2	C20,C31	4.7uF	CAP CER 4.7UF 6.3V 20% X5R 0402	TDK	C1005X5R0J475M050BC		402	
12	8	C21,C22,C23,C24,C26,C28, C32,C65	2.2uF	2.2uF 25V Ceramic Capacitor X5R 0603	Taiyo Yuden	TMK107ABJ225KA-T		603	
13	3	C25,C33,C39	10uF	CAP CERAMIC 10UF 6.3V X5R 0603	TDK	C1608X5R0J106M080AB		603	
14	1	C29	30pF	CAP CER 30PF 50V 5% NPO 0402	Murata	GRM1555C1H300JA01D		402	
15	1	C30	27pF	CAP CER 27PF 50V 5% NPO 0402	Murata	GRM1555C1H270JA01D		402	
16	1	C34	10nF	10000pF 50V Ceramic Capacitor X7R 0402	Murata	GRM155R71E103KA01D		402	
17	1	C36	1uF	CAP CER 1.0UF 10V X5R 0402	Samsung	CL05A105MP5NNNC		402	
18	25	C38,C43,C44,C45,C46,C47, C48,C50,C51,C55,C66,C67, C80,C81,C82,C83,C84,C85, C87,C90,C91,C92,C93,C94, C95	0.1uF	CAP CER .1UF 16V X7R 0402	TDK	C1005X7R1C104K050BC		0402 AVXA	
19	0	C40,C89	0.1uF	CAP CER .1UF 16V X7R 0402	TDK	C1005X7R1C104K050BC		0402 AVXA	
20	1	C49	0.47uF	CAP CER 0.47UF 35V 10% X5R 0402	TDK	C1005X5R1V474K050BC		402	
21	1	C54	0.22uF	CAP CER .22UF 6.3V X7R 10% 0402	Taiyo Yuden	JMK105B7224KV-F		402	
22	2	C78,C79	18pF	CAP CER 18PF 50V NPO 5% 0402	Murata	GRM1555C1H180JA01D		402	
23	1	DN1	BAT54C	DIODE ARRAY SCHOTTKY 30V 200mA SOT23-3	Diodes Inc.	BAT54C-7-F		SOT-23-3	
24	8	D1,D3,D4,D5,D6,D7,D9,D10	blue	LED INGAN/SIC U-BLUE CLR 1206SMD	Lumex	SML-LX1206USBC-TR		1206	
25	1	D2	SMAJ22A	TVS DIODE 22VWM SMD package DO214AC SMA	Bourns	SMAJ22A		SMA	
26	1	D8	green	LED 565NM WTR CLR GREEN 1206 SMD	Lumex	SML-LX1206GC-TR		1206	
27	5	FB1,FB2,FB3,FB4,FB5	BKP1005EM121-T	FERRITE CHIP 80 OHM 1500MA 0402	Taiyo Yuden	BKP1005EM121-T		402	
28	1	F1	5A	FUSE BRD MNT 5A 32VAC 35VDC 1206	LittleFuse	0437005.WR		1206	
29	1	J1	SBH11-PBPC-D07-RA-BK	CONN HEADER 2.54MM 14POS GOLD R/A	Sullins	SBH11-PBPC-D07-RA-BK		SBH11-D07-RA	
30	0	J2	B5B-ZR	CONN HEADER ZH TOP 5POS 1.5MM	JST	B5B-ZR-SM4-TF(LF)(SN)		JST B5B-ZR-SM4-TF LF SN P	
31	0	J3	B4B-ZR	CONN HEADER ZH TOP 4POS 1.5MM	JST	B4B-ZR-SM4-TF(LF)(SN)		JST B4B-ZR-SM4-TF LF SN P	
32	1	J4	PJ-082BH	CONN PWR JACK 2.5X5.5MM SOLDER	CUI Inc	PJ-082BH		CUI PJ-082BH	
33	0	J5	B6B-ZR	CONN HEADER ZH TOP 6POS 1.5MM	JST	B6B-ZR-SM4-TF(LF)(SN)		JST B6B-ZR-SM4-TF LF SN P	
34	1	J6	M20-9990245	CONN HEADER 2 POS 0.1IN SIL VERT	Harwin	M20-9990245		HDR2P_1R	
35	3	J7,J8,J9	S2B-ZR	CONN HEADER ZH SIDE 2POS 1.5MM	JST	S2B-ZR(LF)(SN)		JST_S2B_ZR	
36	1	J10	QSH-030-01-L-D-A	CONN RCPT HI-SPD .5MM 60POS DL (stacking ht 5mm)	Samtec	QSH-030-01-L-D-A		Samtec_QSH-030-xx-x-D-A	
37	1	J11	HDMI Type C (Mini) Receptacle	MINI HDMI 19P FEMALE SMT	CNC Tech	2001-1-2-21-00-BK		CNC-2001-1-2-21-00-BK	
38	1	J12	USB - Mini-B USB 2.0	CONN RECEPT MINI-USB R/A 5POS SMD	Molex	0513870578		MOLEX_USB_CONN 0513870578	
39	0	J13	S4B-EH(LF)(SN)	CONN HEADER EH SIDE 4POS 2.5MM	JST	S4B-EH(LF)(SN)		CONN4-S4B-EH_JST	
40	1	L1	10uH	Inductor 10 uH 6 A 20% SMD	Coilcraft	XAL8080-103MEB		Coilcraft_XAL8080	
41	1	L2	10uH	FIXED IND 10UH 3.8A 25 MOHM SMD	Bourns	SRU1038-100Y		Bourns_SRU1038	
42	1	L3	2.2uH	INDUCTOR 2.2UH 20% 1300MA 1008	Murata	LQM2HPN2R2MG0L		1008_2p5mmx2mm	
43	1	Q1	DMN26D0UT-7	MOSFET N-CH 20V 230MA SOT523	Diodes	DMN26D0UT-7		SOT 523	
44	6	RP1,RP2,RP3,RP4,RP5,RP6	22	RES ARRAY 4 RES 22 OHM 0804	Panasonic	EXB-N8V220JX		804	
45	2	R1,R8	0	RES SMD 0.0 OHM JUMPER 1/8W 0805	Panasonic	ERJ-6GEY0R00V		805	
46	1	R2	150	RES 150 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1500X		402	
47	1	R3	10.7k	RES SMD 10.7K OHM 1% 1/16W 0402	Vishay Dale	CRCW040210K7FKED		402	
48	15	R4,R33,R36,R42,R50,R52, R53,R59,R60,R61, R77,R87, R88,R91,R93	0	RES 0.0 OHM 1/16W 0402 SMD	Panasonic	ERJ-2GE0R00X		402	
49	4	R5,R9,R71,R76	100k	RES SMD 100K OHM 1% 1/16W 0402	Vishay Dale	CRCW0402100KFKED		402	
50	1	R6	19.1k	RES SMD 19.1K OHM 1% 1/8W 0805	Panasonic	ERJ-6ENF1912V		805	
51	7	R7,R18,R19,R20,R24,R82, R89	10	RES 10.0 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF10R0X		402	
52	1	R10	32.4k	RES SMD 32.4K OHM 1% 1/8W 0805	Panasonic	ERJ-6ENF3242V		805	
53	1	R11	2.15k	RES SMD 2.15K OHM 1% 1/16W 0402	Vishay Dale	CRCW04022K15FKED		402	
54	2	R12,R15	274k	RES SMD 274K OHM 1% 1/16W 0402	Vishay Dale	CRCW0402274FKED		402	
55	2	R13,R16	30.9k	RES SMD 30.9K OHM 1% 1/16W 0402	Vishay Dale	CRCW040230K9FKED		402	
56	1	R14	95.3k	RES SMD 95.3K OHM 1% 1/16W 0402	Vishay Dale	CRCW040295K3FKED		402	
57	1	R17	97.6k	RES SMD 97.6K OHM 1% 1/16W 0402	Vishay Dale	CRCW040297K6FKED		402	
58	12	R21,R22,R23,R31, R32,R47, R48,R49,R54,R67,R68,R69	30.1	RES 30.1 OHM 1/16W 1% 0402 SMD	Panasonic	ERJ-2RKF30R1X		402	
59	25	R25,R27,R30,R35,R57,R70, R72,R73,R78,R80,R81,R83, R85,R90,R95,R96,R97,R98, R99,R101,R102,R103,R106, R107,R109	10k	RES SMD 10K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF1002X		402	
60	2	R26,R92	47k	RES 47.0K OHM 1/10W 1%, 0402 SMD	Panasonic	ERJ-2RKF4702X		402	
61	2	R26,R29	180k	RES 180K OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-07180KL		402	

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62	0	R34,R41,R51,R58,R79,R86,R94,R108	0	RES 0.0 OHM 1/16W 0402 SMD	Panasonic	ERJ-2GE0R00X		402	
63	12	R37,R39,R40,R43,R44,R45,R46,R62,R63,R64,R65,R66	22	RES SMD 22 OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF22R0X		402	
64	1	R38	3.16k	RES SMD 3.16K OHM 1% 1/10W 0603	Panasonic	ERJ-3EFK3161V		603	
65	1	R55	30.1k	RES SMD 30.1K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF9012X		402	
66	1	R56	14.3k	RES SMD 14.3K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF1432X		402	
67	1	R74	100	RES 100 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1000X		402	
68	1	R75	1k	RES SMD 1K OHM 1% 1/16W 0402	Yageo	RC0402FR-071KL		402	
69	0	R84	10k	RES SMD 10K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF1002X		402	
70	1	R100	1.5k	RES 1.50K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1501X		402	
71	2	R104,R105	1M	RES 1M OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1004X		402	
72	1	SW1	TL1105F100Q	SWITCH TACTILE SPST-NO 0.05A 12V TH	Eswitch	TL1105F100Q		TL1105F100Q	
73	1	SW2	GT11MSCBE	SWITCH TOGGLE SPDT ULTRAMINI SMD	C&K	GT11MSCBE		GT11MSCBE	
74	8	TPGND1,TPGND2,TPGND3,TPGND4,TPGND5,TPGND6,TPGND7,TPGND8	TP_BLK	TEST POINT PC MINI .040inD BLACK	Keystone	5001		KEYSTONE_TP_MINIATURE	
75	1	U1,U2	TPS54335ADDAR	IC REG BCK ADJ 3A SYNC 8SOPWRPAD	Texas Instruments	TPS54335ADDAR		8-SO-PWRPAD_DDA_R-PDSO-G8	
76	4	U3,U4,U6,U22	SN74AUP1G06DCK	IC INVERTER SINGLE 1INPUT SC705, open drain	Texas Instruments	SN74AUP1G06DCKR		U_5_DCK	
77	3	U5,U9,U12	SN74AVC4T774PWR	IC BUS TRANSCVR 4BIT DL 16TSSOP	Texas Instruments	SN74AVC4T774PWR		TSSOP16_PW	
78	4	U7,U16,U23,U30	SN74AUP1G07DCK	IC BUFF/DVR LOW PWR N-INV SC705, open drain	Texas Instruments	SN74AUP1G07DCKR		U_5_DCK	
79	1	U8	TPS62260DDCT	IC REG BUCK SYNC ADJ TSOT23-5	Texas Instruments	TPS62260DDCT		TSOT-23_DDC_R-PDSO-G5	
80	2	U10,U31	SN74AUP1T17DCK	IC BUFFER SCHMITT TRIG LP SC70-5	Texas Instruments	SN74AUP1T17DCKR		SC70_5_DCK	
81	1	U11	M24C02-WMN	IC EEPROM 2KBIT 400KHZ 8SO	STMicro	M24C02-WMN6TP		SO8	
82	1	U13	MSP430F5529IPN	IC MCU 16BIT 128KB FLASH 80LQFP	Texas Instruments	MSP430F5529IPN		80-LQFP_PN_S-PQFP-G80	
83	1	U14	ITE6801FN	IC RCVR HDMI SINGLE PORT 76-QFN	ITE	ITE6801FN		ITE6801_76pin_QFN	
84	1	U15	TPS73001DBV	IC REG LDO ADJ 0.2A SOT23-5	Texas Instruments	TPS73001DBVR		SOT23-6_DBV_R-PDSO-G6	
85	3	U17,U18,U20	TXS0102	IC VOLT-LEVEL TRANSLATOR 8-US8	Texas Instruments	TXS0102DCUR		VSSOP-8_DCU	
86	1	U19	TPS2061CDBVT	IC PWR DIST SWITCH SGL SOT23-5	Texas Instruments	TPS2061CDBVT		SOT-753	
87	1	U21	CY7C65215-32LTXI	IC USB TO UART BRIDGE DUAL 32QFN	Cypress	CY7C65215-32LTXI		CY7C65215_32pin_QFN	
88	3	U24,U25,U29	TPD2E001DRY	IC ESD-PROT ARRAY 2CH 6-SON	Texas Instruments	TPD2E001DRYR		U_6_DRY	
89	2	U26,U27	TPD4E05U06DQAR	TVS DIODE 5.5VWM 14VC 10SON	Texas Instruments	TPD4E05U06DQAR		10-UFDN	
90	1	U28	TPD2E2U06DRL	TVS DIODE 5.5VWM 12.4VC 5SOT	Texas Instruments	TPD2E2U06DRLR		SOT-5_DRL_R-PDSO-N5	
91	1	X1	27MHz	CRYSTAL 27MHZ 18P ±30ppm 60 Ohm 4P CSMD	CTS	403C35D27M0000		4SMD	

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