

LEOPARDBOARD V1.5

Item Number	LI Part#	QTY	REF.DES.	VALUE	FOOTPRINT	Manufacturer	Part#
1	110001	35	C8,C9,C10,C11,C12,C13,C20,C22,C23,C25,C26,C28,C29,C30,C31,C32,C36,C37,C38,C39,C81,C83,C84,C86,C100,C102,C103,C104,C106,C108,C109,C111,C132,C3,C6,C17,C27,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C62,C63,C72,C73,C74,C75,C77,C78,C88,C9	CAP .1UF 16V CERAMIC X7R	0402	Panasonic	ECJ-0EX1C104K
2	110002	39	C3,C6,C17,C27,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C62,C63,C72,C73,C74,C75,C77,C78,C88,C9	CAP .01UF 25V CERAMIC X7R	0402	Panasonic	ECJ-0EB1E103K
3	110003	1	C85	CAP 12PF 50V CERAMIC	0402	Panasonic	ECJ-0EC1H120J
4	110004	2	C105,C107	CAP 22PF 50V CERAMIC	0402	Panasonic	ECJ-0EC1H220J
5	110005	3	C7,C21,C24	CAP 27PF 50V CERAMIC	0402	Panasonic	ECJ-0EC1H270J
6	110006	2	C114,C126	CAP 47PF 50V CERAMIC	0402	Panasonic	ECJ-0EC1H470J
7	110007	3	C4,C5,C101	CAP 270PF 50V CERAMIC X7R	0402	Panasonic	ECJ-0EB1H271K
8	110008	10	C16,C33,C66,C67,C70,C71,C87,C98,C115,C117	CAP CERAMIC 1UF 6.3V X5R	0402	Panasonic	ECJ-0EB0J105K
9	110009	10	C1,C2,C14,C15,C34,C64,C76,C79,C80,C116	CAP 2.2UF 6.3V CERAMIC X5R	0603	Panasonic	ECJ-1VB0J225K
10	110010	10	C18,C19,C35,C65,C68,C69,C82,C90,C93,C94	CAP CERAMIC 4.7UF 6.3V X5R	0603	Panasonic	ECJ-1VB0J475K
11	110011	1	C130	CAP CERAMIC 4.7UF 10V X5R	0805	Panasonic	ECJ-GVB1A475M
12	130001	1	D4	ESD Diode	2512	Comchip	CPDF5V0U
13	110012	8	C97,C120,C121,C122,C124,C125,C128,C129	CAP CERAMIC 10UF 6.3V X5R	0603	Panasonic	ECJ-1VB0J106M
14	110013	8	C89,C92,C95,C110,C112,C118,C119,C123	CAP CERAMIC 22UF 6.3V X5R	0805	Panasonic	ECJ-2FB0J226M
15	130002	3	D1,D2,D3	SUPPRESSOR ESD 24VDC	0603	Littelfuse/Mouser	PGB0010603MR
16	150001	1	DIPSW1	SWITCH TAPE SEAL 2 POS	SMD_DIP2	CTS	219-2LPST
17	140001	9	FIL1,FIL2,FIL3,FIL4,FIL5,FIL6,FIL7,FIL8,FIL9	SMD EMI Filters/Chip Ferrite Beads 0603 1UF 6.3V 2A	FIL0603	Murata/Mouser	NFM18PC105R0J3
18	160001	1	JP1	SD CARD NORMAL TOP PCB	SDCARD	AVX	145638009211859+
19	160002	1	J11	Mini-B Receptacle, USB Right Angle	SMD	CWE	UMBF-051MICB-CF735
20	160003	1	J2	RCA JACK METAL R/A YEL	RCAJACK	CUI	RCJ-014
21	160004	1	J1 *	67997-420HLF (20pin) (7x2)	HEADER14	CWE	P201-SGN-060/030-14
22	160005	1	J5	CONN RCPT .05" 34POS DUAL T/H	2x17x1.27	CWE	F627-SGN1-D020-34-CF358
23	160006	1	J8	RJ45 with Transformer built-in	RJ45	Future	HFJ11-2450E-L21RL
24	160007	1	J12	2.1mm Power Jack	PJ2.1	Digikey	PJ-002A

25	160008	1	J13	CONN RCPT .05" 50POS DUAL SMD	SMD	CWE	F618-MGN1-D051-50-CF358
26	160009	3	J3,J6,J7	AUDIO JACK 2.5MM STEREO	SJ2523	Digikey	SJ-2523-SMT
27		1	J14*	2mm SIP connector - 3 pins	2mm		
28		1	J15	2mm SIP connector - 2 pins	2mm		
29	170001	3	LED1, LED2,LED3	LED THIN 565NM GRN DIFF	0805	Digikey	SML-LXT0805GW-TR
30	140002	2	L1,L11	GLF2012T-2R2M (2.2uH)	0805	TDK	GLF2012T2R2M
31	140003	2	L2,L12	MPZ2012S300	0805	TDK	MPZ2012S300A
32	140004	1	L3	MLF2012A3R3KT	0805	Mouser	MLF2012A3R3K
33	140005	1	L4	BLM18PG181SN1	0603	Mouser	BLM18PG181SH1D
33	140006	4	L5,L6,L7,L8	GLF2012T-220K (22uH)	0805	TDK	GLF2012T220K
34	120028	2	L9,L10	RES 0.0 OHM 1/10W 5%	0603	Panasonic	ERJ-3GEY0R00V
35	140007	1	L14	CDRH3D16-2.2uH	RH3D16	Digikey	VLF4012AT-2R2M1R5
36	140008	1	L13	CDRH3D16-3.3uH	RH3D16	Digikey	VLF4012AT-3R3M1R3
37	130003	1	Q1	AO3403	SOT23	Digikey	AO3403
38	130004	1	Q2	DTC144EUA	DTC143EUA	Digikey	DTC144EUAT106
39	130005	1	Q4	2SC2412K	SOT-346	Digikey	2SC2412KT146Q
40	130006	1	Q3	BSS84CT-ND	SOT23	Digikey	BSS84CT-ND
41	120001	1	RN1	RES ARRAY 47 OHM 5% 4 RES	0402X4	Panasonic	EXB-28V470JX
42	120002	9	RN2,RN4,RN5,RN6,RN7,RP1,RP2,RP3,RP4	RES ARRAY 10 OHM 5% 8 RES	0402X8	Panasonic	EXB-2HV100JV
43	120003	1	RN3	RES ARRAY 10 OHM 5% 4 RES	0402X4	Panasonic	EXB-28V100JX
44	120004	14	R10,R16,R28,R32,R35,R57,R64,R69,R77,R101,R103,R104,R107,	RES 0 OHM 1/16W 5%	0402	Panasonic	ERJ-2GE0R00X
45	120005	1	R100	RES 1.0 OHM 1/10W 5%	0603	Panasonic	ERJ-3RQJ1R0V
46	120006	7	R6,R46,R58,R60,R62,R63,R66	RES 33 OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ330X
47	120007	5	R14,R84,R85,R86,R87	RES 49.9 OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF49R9X
48	120008	1	R81	RES 100 OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ101X
49	120009	4	R68,R76,R122,R123	RES 220 OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ221X
50	120010	3	R79,R80,R120	RES 680 OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ681X
51	120011	16	R9,R11,R12,R19,R20,R26,R27,R31,R34,R36,R37,R38,R43,R98,R116,R118	RES 1.00K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF1001X
52	120012	1	R4	RES 1.07K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF1071X
53	120013	2	R67,R119	RES 1.5K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ152X
54	120014	1	R5	RES 3.01K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF3011X
55	120015	1	R40	RES 4.7K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ472X
56	120016	1	R83	RES 6.80K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF6801X
57	120017	13	R15,R17,R30,R33,R42,R72,R74,R75,R78,R82,R121,R125,R127	RES 10K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ103X
58	120018	13	R29,R45,R73,R88,R89,R92,R93,R94,R95,R96,R99,R114,R115	RES 47K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ473X
59	120019	9	R22,R23,R47,R48,R49,R52,R53,R54,R56	RES 51K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ513X

60	120020	5	R13,R61,R90,R117,R128	RES 100K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ104X
61	120021	1	R105	RES 120K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF1203X
62	120022	2	R110,R112	RES 130K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF1303X
63	120023	3	R97,R106,R113	RES 150K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF1503X
64	120024	2	R108,R111	RES 240K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF2403X
65	120025	1	R51	RES 510K OHM 1/16W 5%	0402	Panasonic	ERJ-2GEJ514X
66	120026	1	R91	RES 680K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF6803X
67	120027	1	R109	RES 180K OHM 1/16W 1%	0402	Panasonic	ERJ-2RKF1803X
68	150002	1	SW1	IT-1188E-160G, RESET Button	TACTSWITCH	Mouser	TL3330AF130QG
69	200001	1	U2	TMS320DM355ZCE	BGA361-337	TI	TMS320DM355ZCE216
70	200002	1	U3	K4T1G164QQ-HCE6 (1Gb DDRII) or MT47H64M16HR-3 (1G from Micron)	FBGA135-84	Arrow	K4T1G164QQ-HCE6 or MT47H64M16HR-3
71	200003	1	U4	K9F5608U0D-PCB0 (256Mb NAND) or K9F1208U0C-PCB0000 (512Mb) or K9F1G08U0B-PCB0000 (1Gb) or	TSSOP-48	Arrow/Avnet/Future Electronics	K9F5608U0D-PCB0000 or MT29F2G08AADWP
72	200004	1	U5	SN74LVC1G08DCK	SC-70-5	TI	SN74LVC1G08DCKR
73	200005	1	U1	TRS3221ECPWR	TSSOP-16	TI	TRS3221ECPWR
74	200006	1	U6	TLV320AIC3104IRHBT	QFN32	TI	TLV320AIC3104IRHBT
75	200007	1	U8	TPS65053RGE	QFN24	TI	TPS65053RGET
76	200008	1	U7	DM9000BEP-A	QFP48-3	DAVICOM	DM9000BEP-A
77	200009	1	U9	USB Power Peripheral	14-HTSSOP	TI	TPS2141IPWP
78		1	U10	IC 900MA POWER DIST SW	8-SOIC	TI	TPS2041BD
79	180001	1	Y1	24MHZ	CRY(3.2X2.5)	Digikey	NX3225SA-24.000000MHZ
80	180002	1	Y2	25MHZ	CRY(3.2X2.5)	Digikey	CS325 25.000MABJ-UT

NOTE:

1. * Cut J1-Pin6
2. * J14, Put jumper on Pin #1 and #2

V1.3 Change Note:

1. C131 to D4
2. Add R122, R123: 220 Ohm
3. Add LED2 and LED3
4. Add Silkscreen .org
5. Change RJ45 package which has two LED connected
6. Add Y0 and Y1 signal on Camera connector

V1.4 Change Note:

1. Add Cin6 and Cin7 on Camera Connector
2. PCB Layout optimized

V1.5 Change Note:

1. Add USB Host
2. Change CMOS from 3.3V to 5V