

ML-7061-V2 BOM

REV:A		2018-03-08			
No.	Class	Spec	Package	Q'ty	Location
1	PCB	4Layer FR4 PCB 35x22.5x1.0mm		1	ML-7061 REV:A
2	Chip Capacitor	C.CAP, 0.5pF, 50V, +/-5%	0402	6	C14,C16,C17,C32,C35,C36
3	Chip Capacitor	C.CAP, 1.2pF, 50V, +/-5%	0402	4	C13,C23,C31,C42
4	Chip Capacitor	C.CAP, 1.8pF, 50V, +/-5%	0402	2	C18,C40
5	Chip Capacitor	C.CAP, 3.3pF, 50V, +/-5%	0402	1	C34
6	Chip Capacitor	C.CAP, 9pF, 50V, +/-5%	0402	2	C21,C39
7	Chip Capacitor	C.CAP, 10pF, 50V, +/-5%	0402	7	C1,C12,C22,C30,C41,C101,C104
8	Chip Capacitor	C.CAP, 15pF, 50V, +/-5%	0402	2	C75,C77
9	Chip Capacitor	C.CAP, 100pF, 50V, +/-10%	0402	10	C5,C8,C11,C26,C29,C43,C44,C46,C48,C102
10	Chip Capacitor	C.CAP, 0.0015uF, 16V, +/-10%(1.5nF)	0402	2	C53,C54
11	Chip Capacitor	C.CAP, 0.1uF, 16V, +80/-20%(100nF)	0402	27	C49,C55,C56,C57,C58,C62,C64,C65,C66,C67,C71,C72,C73,C74,C81,C82,C84,C87,C88,C89,C90,C91,C92,C93,C95,C96,C97
12	Chip Capacitor	C.CAP, 1uF, 10V, +80/-20%(105)	0402	13	C2,C4,C6,C7,C10,C24,C25,C45,C47,C51,C52,C63,C86
13	Chip Capacitor	C.CAP, 4.7uF, 10V, +80/-20%	0603	12	RC1,C28,C50,C59,C60,C61,C68,C70,C76,C78,C79,C80
14	Chip Capacitor	C.CAP, 10uF, 10V, +80/-20%	0805	7	C3,C9,C27,C69,C83,C94,C98
15	Chip Capacitor	C.CAP, 22uF, 10V, +80/-20%	1206	3	C85,C99,C103
16	Capacitor	100uF/6.3V+/-20% SIZE-B (AVX)	SIZE-B	1	C100
17	Chip Resistor	0Ω, 1/10, +/-5%	0603	2	R1,R2
18	Chip Resistor	0Ω, 1/10, +/-5%	0402	6	R14,R15,R16,R19,R21,R47
19	Chip Resistor	22Ω, 1/10, +/-5%	0402	2	SR1,R20
20	Chip Resistor	47Ω, 1/10, +/-5%	0402	2	R43,R44
21	Chip Resistor	330Ω, 1/10, +/-5%	0402	2	R10,R13
22	Chip Resistor	1KΩ, 1/10, +/-1%	0402	5	R3,R4,R9,R38,R39
23	Chip Resistor	4.7KΩ, 1/10, +/-5%	0402	11	R5,R7,R8,R12,R26,R27,R28,R30,R34,R35,R36
24	Chip Resistor	5.1KΩ, 1/10, +/-5%	0402	1	R18
25	Chip Resistor	10KΩ, 1/10, +/-5%	0402	6	SR2,SR3,R6,R11,R23,R48
26	Chip Resistor	20KΩ, 1/10, +/-5%	0402	1	R17

27	Chip Resistor	22K Ω , 1/10, +/-1%	0402	1	R42
28	Chip Resistor	24.3K Ω , 1/10, +/-1%	0402	1	R22
29	Chip Resistor	100K Ω , 1/10, +/-1%	0402	3	R41,R45,R46
30	LED	SMD RED LED T: 0.8mm DB	0603	1	LED3
31	Chip Inductor	1.2nH +/-0.1nH	0402	2	L6,L14
32	Chip Inductor	2.0nH +/-0.1nH	0402	6	L4,L5,L7,L12,L13,L15
33	Chip Inductor	2.7nH +/-0.1nH	0402	4	L3,L8,L11,L16
34	Chip Inductor	10nH +/-0.1nH	0402	4	L1,L2,L9,L10
35	Inductor	2.2uH DCR<0.3R magnet shield Max 1.5A	4018	2	L18,L19
36	Crystal	40MHz +/-20ppm 15pF 3225 +85°	SMD	1	U2
37	Connector	4PIN SMD Pitch 1.25mm	SMD	1	J1
38	Connector	5PIN SMD Pitch 1.25mm	SMD	1	J2
39	Connector	2.4G 50 Ω Ipex 3PIN	SMD	2	ANT1,ANT2
41	IC	MT7628AN	DRQFN156	1	U1
42	DDR2	Winbond W9751G6KB	FBGA84	1	U6
43	FLASH	W25Q32 4 MB	MSOP-8	1	U4
44	IC	HP6827	SOT23-5	2	U7,U8
45	IC	ML-M6R61	SOP-8	1	U3
46	LDO	HP5013B-1.8V	SOT-23-5	1	U5

Model No.	PB1800				
Order No.			Q'ty	2000PCS	
Class	Part Number	Description	Supplier	Q'ty	Location
PCB	MDB2-060H44-0000	PCB 60x25x1.0mm V1.0 2Layer FR4+HAL		1	
Resistor	MDRT-0R503F-0000	TFCR 0.05R+/-1% R0805		1	R22
	MDRT-20102J-0000	TFCR 200R+/-5% R0603		3	R11 R17,R19
	MDRT-10202J-0000	TFCR 1KR+/-5% R0603		2	R2, R21
	MDRT-10302J-0000	TFCR 10KR+/-5% R0603		1	R8
	MDRT-10102J-0000	TFCR 100R+/-5% R0603		1	R1
	MDRT-22402F-0000	TFCR 220KR+/-1% R0603		2	R4 R10
	MDRT-20202F-0000	TFCR 2KR+/-1% R0603		2	R5, R6
	MDRT-30302F-0000	TFCR 30KR+/-1% R0603		1	R7
	MDRT-39402J-0000	TFCR 390KR+/-5% R0603		1	R9
	MDRT-10402J-0000	TFCR 100KR+/-5% R0603		1	R18
Capacitor	MDCM-10602K-0100	MLCC 10UF+/-10% 10V C0603		7	C1 C2,C4, C5 C6,C7,C8
	MDCM-10402K-0100	MLCC 0.1UF+/-10% 16V C0603		5	CB6 CB7 CB8,CB1 CB44
	MDCM-33102K-0000	MLCC 330PF +/-10% 50V C0603		1	C9
	MDCM-22102M-0000	MLCC 220PF+/-20% 25V C0603		1	C3
Inductor	MDLB-A0802P-0000	BEAD 120R+/-25% 80MR 2.5A L0603		8	L2 L3 L4 L5 L6 L7 L8 L9
	MDLS-4R70NM-0001	IND 4.7UH+/-20% 2A SIZE5.8x5.2x3.5 CD53		1	L1
Semi-conductor	MDTA-000606-0000	N.MOSFET AF8205S 20V6A SOT-23-6		1	U4
	MDTA-000405-0000	N.MOSFET SSC8022GS6A 20V SOT233		1	Q2
	MDTD-000101-0000	S.D SK34 40V3A SMA		1	D2
	MDTD-000J12-0000	Bi-directional TVS 5V 10pF SFI0402TS050-100A-11 SMD0402		1	D3
	MDTL-000013-0000	LED BLUE L0603		4	LED1 LED2 LED3 LED4
IC	MDMP-000004-0100	1A Lithium Ion Battery Linear Charger ME4056 SOP8-PP		1	U1
	MDMM-000A03-0000	PROT S8261ABMD-G3MT2S SOT236		1	U2
	MDMB-000001-0000	1.2MHz, 2A output current, Boost converter MST9220 SOT23-6		1	U3
	MDMM-000U14-0000	MCU SN8P2711 SOP14		1	U5
Connector	MH08-5PS090-0000	Wafer 1.25 5P SMT 11.3x5.25x3.66mm		1	S2
	MH08-4PS090-0000	Wafer 1.25 4P 180° SMT 10.05x5.25x3.66mm		1	S4
	MH01-03S090-0600	USB2.0 Micro MF 7.2*6.6*1.85mm Housing DIP/SMT 90°		1	J1

MH10-030635-0100	4.6x3.5x1.8mm Slid Tact Switch		1	S3
MH10-040417-0100	4*4*1.7mm Tact Switch		1	S1
MF06-035028-0100	4pin cable L=35mm 28AWG		1	
MF06-035028-0200	5pin cable L=35mm 28AWG		1	

JMS562_Main Chip Revised: Wednesday, December 10, 2014
JMS562_35A_LCSCH_1V3 Revision: 1.3

Bill Of Materials December 20, 2014 11:50:42

Item	Quantity	Reference	Part	PCB Footprint\
1	18	CB16, CB17, CB18, CB19, CB20, CB21, CB22, CB23, CB24, CB25, CB26, CB27, CB28, CB29, CB30, CB31, CB32, CB33	0. 1uF	C0603
2	1	CM1	DLP11TB800UL2	CHOKE-0603
3	1	CN1	eSATA7P-DIP	ESATA
4	1	CN2	HONKON/HSAT-022-R5S-06	SATA22P
5	1	CN3	Bi ze 635-09211020XX0000	USB3B-9P
6	12	C1, C2, C3, C4, C5, C6, C7, C8, C20, C21, C22, C23	10nF	C0402
7	26	C9, C12, C24, C25, C28, C32, C33, C34, C38, C42, C45, C50, C51, C52, C56, C68, C69, C70, C71	10uF	C0805
8	25	C10, C15, C16, C18, C26, C29, C30, C31, C35, C36, C39, C40, C41, C46, C47, C48, C49, C53, C54, C55, C57, C58, C59, C60, C62	100nF	C0402
9	6	C11, C17, C19, C37, C61, C110	1uF	C0402
10	4	C13, C14, C43, C44	22pF	C0402
11	1	C27	10uF	C0603
12	2	C60, C66	220pF	C0603
13	2	C61, C62	12pF	C0603
14	2	C63, C67	0. 33uF	C0603
15	2	C63, C97	1uF /NM	C0402
16	2	C64, C65	NC	C0603
17	1	C73	0. 22uF	C0603
18	1	C75	47U/25V	DC100C65
19	4	C99, C100, C114, C115	100nF	C0603
20	1	C113	220U/16V	DC100C65
21	1	C116	1nF	C0603
22	1	D1	HSK22	DO-214AC(SMA)
23	2	FB1, FB2	60 OHM	L0805
24	1	FB1	FB_100R	L0603

25	2	J1, J2	1394B Connect2	FW800
26	1	J3	DC JACK	DC-JACK
27	1	J4	CONN JACK 1X2	D. SW01
28	1	J5	CONN PCB 2	LED 2.54 2P
29	1	L1	GTSD53P-4R7M/1.8A@I max	L-GSDR31
30	4	L2, L3, L4, L5	DLP11SN900HL2	CHOKE-0603
31	2	L6, L8	GSDR31P-2R2M	L-GSDR31
32	1	L9	22UH/3A	CHOKE-10x10
33	1	Q1	2N3904 /NM	SOT23
34	2	Q2, Q4	APM2301CA	SOT23
35	3	Q2, Q3, Q5	2N3904	SOT23
36	2	RN1, RN2	22R 8P4R	RP 4
37	13	R2, R11, R13, R16, R17, R18, R20, R51, R61, R64, R67, R68, R69	4.7K	R0402
38	1	R3	330K	R0402
39	1	R4	10	R0402
40	2	R5, R6	12K	R0402
41	1	R7	1M	R0402
42	1	R8	NC	R0402
43	1	R9	12K 1%	R0402
44	1	R10	47K	R0402
45	1	R12	0	R0402
46	1	R14	NM	R0402
47	1	R15	10K /NM	R0402
48	2	R19, R21	4.7K /NM	R0402
49	1	R26	390	R0603
50	1	R27	400K	R0603
51	3	R28, R33, R43	1M	R0603
52	1	R29	3K 1%	R0603
53	2	R30, R40	4K99	R0603
54	8	R31, R32, R34, R35, R41, R42, R44, R45	56	R0603
55	2	R36, R37	22R	R0603
56	3	R38, R46, R57	10K	R0603
57	13	R39, R47, R51, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62	1K	R0603

58	4	R48, R49, R50, R52	4K7	R0603
59	1	R52	680K	R0402
60	1	R54	150K	R0402
61	4	R55, R60, R63, R66	100K	R0402
62	1	R56	91K	R0603
63	2	R58, R70	0 /NM	R0402
64	1	R62	75K	R0402
65	4	R65, R71, R72, R85	1K	R0402
66	2	R73, R74	0R	R0402
67	1	SW1	SW-DIP-TOGGLE-3P	hdr2p
68	4	TP1, TP2, TP5, TP7	NAME	TP30
69	1	TP3	UA0	SIP-1P
70	1	TP4	UAI	SIP-1P
71	1	TP6	BIAS1	TP30
72	1	TP8	BIAS2	TP30
73	1	U1	APL1117-33	SOT-223
74	1	U2	JMS562	QFN76_9X9
75	1	U3	F25L04PA-100PG	SOP8
76	1	U4	JMB355	LQFP100
77	1	U5	25LV512	SOP8
78	1	U6	JM20352	QFN84
79	2	U9, U10	FP6377S5CTR	SOT23-5
80	1	U11	AS1003	SOP8
81	2	Y1, X1	30MHz	XTAL-32X25
82	1	Y3	24.576MHz	XTAL

Bill Of Materials for EBR31C1&EBR31C2_562_355_LSI_20141220.sch on Sat Dec 20 15:35:51 2014

1	2	J1-2	1394B_CONNECT2_0, 1394B Connect2	FW800
2	1	U6	1394_PHY-LSI_F W843, JM20352	QFN84
3	1	D1	1N1202B_0, HSK22	D0-214AC(SMA)
4	2	Q3, Q5	2N3904, 2N3904, N/A	SOT23
5	1	Q1	2N3904, 2N3904/NM, N/A	SOT23
6	1	U1	APL1117-33VC, APL1117-33, N/A	SOT-223
7	2	Q2, Q4	APM2301CA, APM2301CA, N/A	SOT23
8	2	U9-10	APW7101, FP6377S5CTR, N/A	SOT23-5
9	1	U11	AS1003, AS1003	SOP8
10	4	C13-14, C43-44	C0402, 22pF, 5%	C0402
11	3	C99, C114, C1150	C0603, 100nF, +80/-20%	C0603
12	1	C100	C0603, 100nF, 10%	C0603
13	1	C27	C0603, 10uF, 20%	C0603
14	1	C1160	C0603, 1nF, +80/-20%	C0603
15	4	C103-104, C111-112	C0805, 10uF, +80/-20%	C0805
16	25	C10, C15-16, C18, C26, C29-31, C35-36, C39-41, C46-49, C53-55, C57-60, C62	C0402_2, 100nF, +80/-20%	C0402
17	12	C1-8, C20-23	C0402_2, 10nF, 10%	C0402
18	6	C11, C17, C19, C37, C61, C110	C0402_2, 1uF, +80/-20%	C0402
19	2	C63, C97	C0402_2, 1uF/NM, +80/-20%	C0402
20	1	C113	C0402_2, 220U/16V, 10%	DC100C65
21	1	C750	C0402_2, 47U/25V, 10%	DC100C65
22	17	C9, C12, C24-25, C28, C32-34, C38, C42, C45, C50-52, C56, C108-109	C0805_2, 10uF, +80/-20%	C0805
23	1	CB1	CAP_0603, 0.22uF	C0603
24	2	C67-68	CAP_0603, 0.33uF	C0603
25	3	C61, C91-92	CAP_0603, 12pF	C0603
26	2	C64, C69	CAP_0603, 220pF	C0603
27	2	C93, C115	CAP_0603, NC	C0603
28	5	C79, C81, C84, C90, C117	CAP_0805, 10uF	C0805

29	18	C65-66, C70-71, C74-78, C80, C82-83, C85-89, C116	CAP_0.1UF_0603, 0.1uF	C0603
30	4	L2-5	CHOCK, DLP11SN900HL2	CHOKE-0603
31	1	CM1	CHOCK, DLP11TB800UL2	CHOKE-0603
32	1	J4	CONN_JACK_1X2, CONN JACK 1X2	D. SW01
33	1	J5	CONN_PCB_2, CONN PCB 2	LED_2.54_2P
34	1	Y3	CRYSTAL, 24.576MHz	XTAL
35	2	X1, Y1	CRYSTAL_SMD_24 GND, 30MHz, +/-20PPM	XTAL-32X25
36	1	J3	DC_JACK, DC_JACK	DC-JACK
37	1	CN1	ESATA7P-DIP_0, eSATA7P-DIP, N/A	ESATA
38	1	U3	F25L04PA-100PG, F25L04PA-100PG, N/A	SOP8
39	2	FB1-2	FB0805, 60 OHM, N/A	L0805
40	1	FB3	FB_0603, FB_100R	L0603
41	2	L6, L8	GSDR31P-2R2M, GSDR31P-2R2M, +/-20%	L-GSDR31
42	1	L9	GSSR2-104P-150 N, 22UH/3A, +/-30%	CHOKE-10X10
43	1	L1	GTSD53P-4R7M, GTSD53P-4R7M/1.8A@I max, +/-20%	L-GSDR31
44	1	U4	JMB355_LQFP100, JMB355	LQFP100
45	1	U2	JMS562_QFN76_0, JMS562	QFN76_9X9
46	1	Q6	NPN_2N3904_SMD, 2N3904	SOT23
47	1	R77	R, 1M	R0603
48	1	R4	R0402, 10, 5%	R0402
49	2	R5-6	R0402, 12K, 5%	R0402
50	8	R11, R13, R17-18, R20, R64, R67-68	R0402, 4.7K, 5%	R0402
51	2	R19, R21	R0402, 4.7K /NM, 5%	R0402
52	1	R57	R0603, 10K, 1%	R0603
53	1	R56	R0603, 91K, 5%	R0603
54	1	R12	R0402_2, 0, 5%	R0402
55	2	R58, R70	R0402_2, 0 /NM, 5%	R0402
56	2	R87-88	R0402_2, 0R, 5%	R0402
57	4	R55, R60, R63, R66	R0402_2, 100K, 5%	R0402
58	1	R15	R0402_2, 10K/NM, 5%	R0402
59	1	R9	R0402_2, 12K 1%, %	R0402
60	1	R54	R0402_2, 150K, 5%	R0402

61	4	R59, R65, R71-72	R0402_2, 1K, 5%	R0402
62	1	R7	R0402_2, 1M, 5%	R0402
63	1	R3	R0402_2, 330K, 5%	R0402
64	5	R2, R16, R51, R61, R69	R0402_2, 4.7K, 5%	R0402
65	1	R10	R0402_2, 47K, 5%	R0402
66	1	R52	R0402_2, 680K, 5%	R0402
67	1	R62	R0402_2, 75K, 5%	R0402
68	1	R8	R0402_2, NC, 1%	R0402
69	2	R38, R45	RES_0603, 10K	R0603
70	13	R31-32, R42-44, R47-48, R80-85	RES_0603, 1K	R0603
71	2	R28, R41	RES_0603, 1M	R0603
72	2	R29-30	RES_0603, 22R	R0603
73	1	R86	RES_0603, 3K 1%	R0603
74	1	R25	RES_0603, 400K	R0603
75	4	R46, R49, R78-79	RES_0603, 4K7	R0603
76	2	R22, R33	RES_0603, 4K99	R0603
77	8	R23-24, R26-27, R34-35, R39-40	RES_0603, 56	R0603
78	1	R14	RES_0603_2, NM	R0402
79	2	RN1-2	RES_8P4R, 22R 8P4R	RP_4
80	1	CN2	SATA-FEMALE-22 P-DIP-7, HONKON/HSAT-02 2-R5S-06, N/A	SATA22P
81	1	U5	SERIAL_FLASH_2 5LV512/010 SOP 8, 25LV512	SOP8
82	1	SW1	SW-DIP-TOGGLE-3P, SW-DIP-TOGGLE-3P, N/A	HDR2P
83	2	TP1-2	TESTPIN, NAME	TP30
84	1	TP4	TESTPIN, UAI	SIP-1P
85	1	TP3	TESTPIN, UAO	SIP-1P
86	1	TP6	TESTPIN_2, BIAS1	TP30
87	1	TP8	TESTPIN_2, BIAS2	TP30
88	2	TP5, TP7	TESTPIN_127, NAME	TP30
89	1	CN3	USB3_0.0-STAND ARD_B-TYPE, Bi ze 635-09211020XX 0000	USB3B-9P

Joylink TECHNOLOGY CO.,LTD.
USB30MF60 Revision: C

Bill Of Materials

Item	Quantity	Reference	Part	Remark
1	16	C1,C4,C5,C10,C11,C12,C13,C14,C15,C16,C17,C18,C20,C22,C24,C29	MLCC 0.1uF ±20% X5R 10V 0402	
2	3	C2,C3,C6	MLCC 4.7uF ±20% X5R 10V 0603	
3	5	C19,C21,C23,C28,C30	MLCC 10uF ±20% X5R 10V 0603	
4	2	C25,C26	MLCC 1uF ±20% X5R 10V 0402	
6	1	D1	Green LED 0603	
7	1	J1	1.25mm Wafer 90° 4pin SMT CCX-W125R-04-SMT	
8	1	J2	FPC 0.5mm H:2.0 drawer type Right Angle Bottom contact SMT FPC320L024	
10	1	R1	Resistor 56K 0402 5%	
11	2	R4,R5	Resistor 10K 0402 5%	
12	1	R6	Resistor 100K 0402 5%	
13	3	L1,R7,R8	Resistor 0R 0603	
14	1	R9	Resistor 470R 0402 5%	
15	1	R10	Resistor 0R 0805	
16	2	R11,R12	Resistor 4.7K 0402 5%	
17	1	U2	Camera controller Sonix SN9C227A QFN46 Sonix	
18	1	U3	Serial flash MX25L512/SOP8 MXIC	
19	1	U4	ZX86W01 security IC SOP8	
20	1	U5	Low noise LDO regulator 3.3V BL8555-33PRA SOT23-5	
21	1	U6	Low saturation voltage regulator 3.3V 300mA ±2% ELM99331A SOT89 ELM	
22	1	U7	LDO 1.8V 300mA ±2% ACE50718BM SOT23 ACE	
23	1		OV7725 CMOS SENSOR FPC24pin OmniVision	
24	1		PCB 4 Layer 1.0mm USB30MF60 Rev.A	