

HMM Heidelberger-Medical-Marketing GmbH

PN:	H80400	PCB version	H80400-V2.0
Draw By:	HongMin	Date	20100315
Check By:		BOM version	main board V2.0

Main board Bill Of Material

Item	Giayee P/N	Description	Qty	Ref NO.	Part number	Mfg	Giayee Package
	310A0002	cap,1pF,+/-0.25pF,50V,NPO,0402	7	C1522,C1534,C1542,C1555,C	C1005C0G1H010CT	TDK	HSC0402
	310A0003	cap,1.2pF,+/-0.25pF,50V,NPO,0402	5	C1546,C1547,C1553,C1554,C	C1005C0G1H1R2CT	TDK	HSC0402
	K3A0001	cap,2.2pF,+/-0.25pF,50V,NPO,0402	1	C1221	C1005COG1H2R2CT	TDK	HSC0402
	K3A0002	cap,3.3pF,+/-0.25pF,50V,NPO,0402	1	C1112	C1005C0G1H3R3CT	TDK	HSC0402
	310A0004	cap,10pF,+/-0.5pF,50V,NPO,0402	5	C1523,C1528,C2510,C2514,C	C1005C0G1H100DT	TDK	HSC0402
	310A0006	cap,15pF,+/-5%,50V,NPO,0402	12	C424,C425,C1212,C1213,C12	CL05C150JBNC	SAMSUNG	HSC0402
	K3A0003	cap,18pF,+/-5%,50V,NPO,0402	2	C426,C427	C1005COG1H180JT	TDK	HSC0402
	310A0007	cap,22pF,+/-5%,50V,NPO,0402	3	C1223,C1819,C2011	C1005COG1H220JT	TDK	HSC0402
	310A0008	cap,27pF,+/-5%,50V,NPO,0402	5	835,836,C840,C1818,C2503	CL05C270JBNC	SAMSUNG	HSC0402
	310A0009	cap,33pF,+/-5%,50V,NPO,0402	13	C809,C836,C841,C842,C1001,	C1005COG1H330JT	TDK	HSC0402
	310A0010	cap,39pF,+/-5%,50V,NPO,0402	1	C1529	CL05C390JBNC	SAMSUNG	HSC0402
	310A0011	cap,100pF,+/-5%,50V,NPO,0402	7	C144,C145,C1014,C1015,C10	C1005C0G1H101JT	TDK	HSC0402
	K3A0004	cap,820pF,+/-10%,50V,X7R,0402	2	C1210,C1211	CL05B821KBNC	SAMSUNG	HSC0402
	310A0013	cap,1nF,+/-10%,50V,X7R,0402	5	C327,C328,C1010,C1105,C15	C1005X7R1H102KT	TDK	HSC0402
	K3A0010	cap,1.8nF,+/-10%,50V,X7R,0402	1	C2523	CL05B182KBNC	SAMSUNG	HSC0402
	310A0014	cap,10nF,+/-10%,25V,X7R,0402	6	C109,C1007,C1008,C1102,C1	C1005X7R1E103KT	TDK	HSC0402
	K3A0005	cap,47nF,+/-10%,16V,X7R,0402	4	C1201,C1222,C2520,C2527	C1005X7R1C473KT	TDK	HSC0402
	310A0015	cap,100nF,+/-10%,16V,X7R,0402	77	C107,C108,C301,C303,C304,C	C1005X7R1C104KT	TDK	HSC0402
	310A0016	cap,220nF,+/-10%,6.3V,X5R,0402	4	C401,C1207,C828,C829	CL05A224KQNC	SAMSUNG	HSC0402
	310A0018	cap,470nF,+/-10%,10V,X5R,0402	6	C1820,C1821,C1822,C1823,C	C1005X5R1A474KT	TDK	HSC0402
	310A0019	cap,1uF,+/-10%,6.3V,X5R,0402	14	C302,C414,C415,C417,C418,C	C1005X5R0J105KT	TDK	HSC0402
	310A0020	cap,2.2uF,+/-20%,6.3V,X5R,0402	19	C806,C835,C403,C404,C409,C	C1005X5R0J225MT	TDK	HSC0402
	K3A0006	cap,2.2uF,+/-20%,6.3V,X5R,0603	4	C402,C522,C523,C903	C1608X5R0J225MT	TDK	HSC0603
	K3A0007	cap,4.7uF, +80%,-20%,6.3V,Y5V,0603	15	C110,C406,C407,C408,C513,C	C1608Y5V0J475ZT	TDK	HSC0603
	310A0021	cap,4.7uF,+/-10%,10V,X5R,0603	2	C1304,C1306	CL10A475KPNC	SAMSUNG	HSC0603
	310A0022	cap,10uF,+/-20%,6.3V,X5R,0603	13	C428,C429,C430,C431,C1011,	CL10A106MQNC	SAMSUNG	HSC0603
	100B010	cap,10uF,+80%,-20%,10V,Y5V,0805	1	C1019	C2012Y5V1A106ZT	TDK	C0805
	310A0023	cap,22uF,+80%,-20%,6.3V,Y5V,0805	3	C901,C902,C1812	C2012Y5V0J226ZT	TDK	SC0805
	310B0001	res,0ohm,+/-5%,0.0625W,0402	27	C906,R507,R508,R707,R1018,	RC0402JR-07ORL	YAGEO	HSR0402

	K3B0002	res,1ohm,+/-5%,0.0625W,0402	2	R1203,R1204	RC0402JR-071RL	YAGEO	HSR0402
	310B0003	res,2.2ohm,+/-5%,0.0625W,0402	1	R1207	RC0402JR-072R2L	YAGEO	HSR0402
	GY-R0007	res,20ohm,+/-1%,0.0625W,0402	2	R303,R2034	RC0402FR-0720RL	YAGEO	SR0402
	K3B0004	res,33ohm,+/-1%,0.0625W,0402	2	R1723,R1724	RC0402FR-0733RL	YAGEO	SR0402
	310B0009	res,330ohm,+/-5%,0.0625W,0402	3	R1114,R1115,R1504	RC0402JR-07330RL	YAGEO	HSR0402
	310B0010	res,1K,+/-5%,0.0625W,0402	8	R78,R802,R811,R1712,R2503,	RC0402JR-071KL	YAGEO	HSR0402
	310B0011	res,1.2K,+/-5%,0.0625W,0402	2	R1608,R1609	RC0402JR-071K2L	YAGEO	HSR0402
	310B0012	res,1.5K,+/-5%,0.0625W,0402	1	R1718	RC0402JR-071K5L	YAGEO	HSR0402
	310B0013	res,2K,+/-5%,0.0625W,0402	2	R1102,R1821	RC0402JR-072KL	YAGEO	HSR0402
	310B0014	res,2.2K,+/-5%,0.0625W,0402	1	R1603	RC0402JR-072K2L	YAGEO	HSR0402
	310B0015	res,3.57K,+/-1%,0.0625W,0402	1	R505	RC0402FR-073K57L	YAGEO	HSR0402
	310B0016	res,4.7K,+/-5%,0.0625W,0402	6	R1108,R1205,R1206,R1506,R	RC0402JR-074K7L	YAGEO	HSR0402
	310B0018	res,10K,+/-5%,0.0625W,0402	18	R108,R203,R302,R702,R803,R	RC0402JR-0710KL	YAGEO	HSR0402
	310B0019	res,20K,+/-5%,0.0625W,0402	4	R808,R809,R1305,R1308	RC0402JR-0720KL	YAGEO	HSR0402
	K3B0009	res,22K,+/-1%,0.0625W,0402	1	R2508	RC0402FR-0722KL	YAGEO	HSR0402
	310B0021	res,39K,+/-5%,0.0625W,0402	1	R1507	RC0402JR-0739KL	YAGEO	HSR0402
	K3B0005	res,47K,+/-5%,0.0625W,0402	9	R511,R403,R1001,R1002,R10	RC0402JR-0747KL	YAGEO	HSR0402
	310B0022	res,100K,+/-1%,0.0625W,0402	12	R1007,R1008,R1009,R1105,R	RC0402FR-07100KL	YAGEO	HSR0402
	310B0023	res,120K,+/-5%,0.0625W,0402	1	R1720	RC0402JR-07120KL	YAGEO	HSR0402
	310B0024	res,180K,+/-1%,0.0625W,0402	3	R1719,R1303,R1304	RC0402FR-07180KL	YAGEO	HSR0402
	310B0025	res,220K,+/-5%,0.0625W,0402	1	R1801	RC0402JR-07220KL	YAGEO	HSR0402
	K3B0006	res,390K,+/-5%,0.0625W,0402	2	R711,R910	RC0402JR-07390KL	YAGEO	HSR0402
	K3B0007	res,620K,+/-1%,0.0625W,0402	1	R402	RC0402FR-07620KL	YAGEO	HSR0402
	K3B0001	res,0.2ohm,+/-1%,0.33W,0402	1	R401	RC1210FR-070R2L	YAGEO	SR1210
	310B0002	res,0ohm,+/-5%,0.1W,0603	4	L501,B1301,B1302,R902	RC0603JR-070RL	YAGEO	L0603
	K3B0008	res,18ohm,+/-5%,0.1W,0603	1	R506	RC0603JR-0718RL	YAGEO	HSR0603
	310C0006	30V schottky barrier diode	4	D501,D1601,D1701,D1702	RB521S-30STE61	ON	HSOD523
	K3C0001	Power mosfet,-20V,-4.1A,dual P-channel	1	Q401	NTLJD3115PT1G	ON	MLF6A-065-0202L
	310C0008	NPN silicon surface mount transistor with	1	Q1801	DTC123JET1G	ON	SC-75
	K3C0002	PNP resistor-equipped transistors,50V-10	1	Q801	PDTA144WE	NXP	HSOT416
	K3C0003	MOSFET-P-CHANNEL--20V--1.5A-0.4OH	1	Q1001	NDS332P	FAIRCHILD	HSOT23
	K3C0004	NPN resistor-equipped transistors,50V-10	1	Q1002	PDTC144EE	NXP	HSOT416
	GY-E0010	LED-WHITE-0603	2	D1902,D1903	GT-197	EVERLIGH	LED0603
	310D0001	Chip Bead,600ohm,+/-25%,0603	4	L301,L1103,L805,L806	MMZ1005S601CT	TDK	HSL0402
	4000A002	ind,1nH,+/-0.3nH,0402	1	L1104	MLK1005S1N0ST	TDK	SL0402
	310D0002	ind,1.8nH,+/-0.3nH,0402	2	L1201,L1511	MLK1005S1N8ST	TDK	HSL0402
	310D0003	ind,2.2nH,+/-0.3nH,0402	1	L1501	MLK1005S2N2ST	TDK	HSL0402

	4000A004	ind,3.3nH,+/-0.3nH,0402	2	L1101,L1102	MLK1005S3N3ST	TDK	HSL0402
	310D0005	ind,4.7nH,+/-0.3nH,0402	1	L1803	MLK1005S4N7ST	TDK	HSC0402
	310D0006	ind,6.8nH,+/-0.5nH,0402	3	L1522,L1802,L1804	MLK1005S6N8DT	TDK	HSL0402
	310D0007	ind,8.2nH,+/-5%,0402	1	L1521	MLK1005S8N2JT	TDK	HSL0402
	4000A008	ind,10nH,+/-5%,0402	1	L1001	MLK1005S10NJT	TDK	HSL0402
	310D0008	ind,15nH,+/-5%,0402	2	L1205,L1505	MLK1005S15NJT	TDK	HSL0402
	310D0009	ind,27nH,+/-5%,0402	1	L1520	MLK1005S27NJT	TDK	HSL0402
	310D0010	ind,33nH,+/-5%,0402	2	L1204,L1514	MLK1005S33NJT	TDK	HSL0402
	310D0011	ind,100nH,+/-5%,0402	3	L1506,L1513,L1519	MLK1005SR10JT	TDK	HSL0402
	4000A014	ind,470NH,+/-2%,0603	1	L1203	LQW18ANR47G00D	MURATA	HSL0603
	310D0012	power ind,2.2uH,+/-20%,2.5mm*2.0mm-0	3	L401,L402,L403	LQM2HPN2R2MJ0	MURATA	SL1008
	K3D0015	power ind,4.7uH,+/-20%,3.2mm*3.0mm-0	2	L1806,L1807	1098AS-4R7M	TOKO	SPL0303D
	310D0013	power ind,10uH,+/-20%,3.0mm*3.0mm-0	1	L1801	VLS3012ET-100M	TDK	SPL0303D
	K3D0016	ESD Varistor,typical capacitance@1kz=5V	34	D1001,D1003,D1004,D1005,D	AVLC5S02050	AMOTECH	0402
	K3D0017	ESD Varistor,26V,2.5pf,0402	2	D904,D905	MVR0402-260E2R5	MOSAIC	0402
	K3E0001	0.25 pitch FPC CONN E/O HGT=1.08 BT	1	CON1	502078-5110	molex	502078-5110
	K3E0002	0.5mm Contact Pitch	1	CON4	FH19S-4S-0.5SH	HRS	FH19S-4S-0D5SH
	K3E0004	0.4mm pitch,0.9mm height,board-to-board	2	J701,J704	DF30FC_24DS_0.4V	HRS	DF30FC_24DS_200W/30W
	YBRE0002	Φ2.5 Earphone jack plastic bushing	1	J13	SM-JAK06-001	Saber	EARPHONE-3D5-6P
	YBRE0003	Battery 3Pin, P3.7	1	J501	BATSH-00315-TPB0	Saber	BAT-5800
	YBRE0005	T-FLASH CONN.PUSH-PUSH NORMAL	1	J703	TFRPN-00815-TP01	Saber	T-FLASH
	GYE0005	micro USB CONNECTOR	1	J901	USBFD-00530-TP0B	Saber	USBCO-01015-TP01
	YBRE0004	8P SIM card,push type	1	J702	005-01-04A71	CHWLS	SIM-005-01-04A71
	YBRE0007	SD card connector,push type	1	J1002	006-01-06A30	CHWLS	SD-C009-X0-2XX4
	310E0010	Tact switch-SPST-5VDC-0.01A-SMD-4.5	6	S1901,S1902,S1904,S1905,S1	SF1114R		RHPSW5-R
	310G0023	Battery,3V,0.0008AH,Φ4.8MM,Height 1.6	1	U401	XH414H-IV01E	Seiko	HSBAT2-0505B
	310G0024	2.4GHz buletooth/WLAN-chip Antenna	3	U1101,J1903,U1103	RFANT5220 110AOT	Walsin	SAT2-0501
	6000A007	processer-HI3611-BGA 460 Ball-1.8/2.5V	1	U101	HI3611	HISILICON	BGA460-20-2626
	K3F0006	500mA,CMOS LDO Regulator	1	U301	RT9013-33PB	RICHTEK	SOT-23-5
	310G0018	Rf switch module for four frequency	1	U1502	LMSP33QA_382	MURATA	RF17-MRT-LMSP33QA
	K3F0007	1.25W fully differential audio powr amplifie	1	U801	CP2296GITLX	Chip HOMER	CSP9
	6000A014	WiFi-2.4GHz-802.11b/g	1	U1102	AW_GH321	AzureWave	LGA48-1010
	6000A015	Bluetooth-V2.0+EDR-2.4GHz-3Mbps	1	U1201	BC51E130A14-IRK-E4	CSR	HBGA84-20-1010
	K3F0008	GPS Module	1	U1001	GSC3LT-8016	SiRF	BGA153-20-1313
	K3F0005	NAND(16bit)+MDDR(16bit) MCP Memori	1	U102	MT29C2G24MAKJAJC	Micron	BGA107-32-1410
	YBRF0001	SERSON	1	U1301	MMA7455L-LGA-14P	freescale	LGA-14L-3X5

	310E0009	push switch	1	J1101	EVQP6DB35	panasonic	EVQWJN
	310G0014	hall IC	4	U1104,U1105,U1106,U1107	AN48841B	panasonic	SMINI-5DA
	6000A018	RF PA for GSM/EDGE	1	U1503	RF3159SR	RFMD	BCC22H-080-0606L
	310G0017	EDGE RF Transceiver-SI4220	1	U1501	AERO4220HN1UM	NXP	MLF36-050-0605L
	310G0022	Power managemnet chipset	1	U1801	PCF50611HN023UM	NXP	MLF52-040-0606L
	310G0020	EDGE IC	1	U1601	PNX5209L0474AUM	NXP	BGA280-20-2020
	K3F0014	Memory 32Mbit NOR FLASH+16Mbit PSF	1	U1701	M36W0R5040T5ZRQF	ST	HBGA88-32-1208
	K3F0018	dual uart,64 bytes of transmit and receive	1	U2004	SC16IS762IBS.151	NXP	HVQFN32
	YBRF0002	Single-chip ANT ultra-low power	1	U2502	nRF24AP2E-AX	NORDIC	QFN24-5X5
	K3F0021	wireless network solution	1	U2504	STOD02PUR	ST	DFN12L
	K3G0001	32.768kHz±20ppm 12.5pF 3.2*1.5mm	3	X401, X1801,Y2003	CC7V_TIA_20PPM	ETA	HSX2-0302
	310F0003	26MHZ,4pin,crystal,SMD, 10pF,10pmm,	1	X402	NX3225SA-10pF	NDK	HSX4-0302
	310F0004	26M,4pin,crystal,7.36pF	1	X1501	NX3225SA-7.36pF	NDK	HSX4-0302
	K3G0002	4pin,oscillator,16.369MHz,2.5X2.0mm	1	TCXO1001	TCXO- NT2520SB A	NDK	SX4-0302A
	K3G0007	4pin,crystal,3.2x2.5mm,18.432MHz	1	Y2001	XS-3225-18.432MHZ	TDK	OSC-HCX-3SB
	YBRF0003	4pin,crystal,3.2x2.5mm,16MHz	1	Y2002	XS-3225-16MHZ	TDK	OSC-HCX-3SB
	310H0002	EMI ESD Filter	9	Z701,Z702,Z703,Z2507,Z2509,	AVRC14S 05Q 030 05	AMOTECH	ICT201226
	K3H0008	ESD_EMI FILTER-5.5V-50PF-200~2500M	3	Z802,Z2508,Z2515	AVRC5S 04D 200 100	AMOTECH	SFLT6-0101
	310H0001	filter for communication--insert loss 2.3dB	1	Z1201	LFB212G45BA1A220	MURATA	HSFLT8-0201
	310H0003	SAW Filter for GSM 850	1	Z1501	SAFEA881MFL0F00R	MURATA	SFLT5-0101
	310H0004	SAW Filter for GSM 900	1	Z1502	SAFEA942MFL0F00R	MURATA	SFLT5-0101A
	310H0005	SAW Filter for GSM 1800	1	Z1503	SAFEA1G84FA0F00R	MURATA	SFLT5-0101A
	310H0006	SAW Filter for GSM 1900	1	Z1504	SAFEA1G96FA0F00R	MURATA	SFLT5-0101A
	YBRE0009	SAW Filter for GPS-1575.42MHz-0.9dB-1	1	Z1001	SAFEB1G57KE0F00R	MURATA	SFLT5-0101A
	310E0007	coaxial switch connector,50ohm,male sea	1	J1501	MM8430-2610RB3	MURATA	MRT-MM8430-2600B
	K3G0022	6.5*0.8mm	23	M1401,M1403,M1404,M1406,M	PTC0703B	SLIVERWING	PBZ2
	YBRH0001	10 layers,green	1	PCB	YBR-K3-100330		

		HMM Heidelberg-Medical-Marketing GmbH					
Draw By:		HongMin		Date	20100315		
Check By:				BOM version	main board V2.0		
Assembly Bill Of Material							
ITEM	Giayee PN	Description	Qty	Ref NO.	Part number	Mfg	note
	YBRM0001	mic--4.6*1.9mm wire bond	1	MIC1	CK415L4RT-423-L051-4619R	Lai Rui Er (no website)	
	YBRM0002	speaker,1524,line length 10mm	1	SP805	2415		
	YBRM0003	motor, Φ10*27mm	1	U502	HFL-C1027-DX-30	HOPEL	
	YBRM0004	FPC	1	U2503	YBR-K3-Rey-V2		
	YBRM0005	GPS antenna	1	J1001			
	YBRM0006	receiver,1005	1		JXR1107-32-02T2		
	YBRM0007	GPS shield Cover,18.73*12.28*2	1			Zhong Ming(http://www.yulong-e.cn)	
	YBRM0008	WIFI shield Cover,16.6*14.39*2	1				
	YBRM0009	GSM shield Cover,36.99*16.95*2	1				
	YBRM0010	RF shield Cover,21.32*17.97*2	1				
	YBRM0011	BT shield Cover,17.13*9.66*2	1				
	YBRM0012	AP shield Cover,39*28.36*2	1				
	YBRM0013	ANT shield Cover,22.06*15.07*2	1				
	YBRM0017	2M pixel camera--8*8	1		LLH-2655-002	Shenzhen United Electronic Co. Ltd	
	YBRM0018	0.3M pixel camera--6*6	1		LLH-7690-002	Shenzhen United Electronic Co. Ltd	
	YBRM0019	foam_for_camera, 7.8*7.8	1		MJY004	Shenzhen FuWanFang Industry Co.,Ltd	
	YBRM0020	camera_lens, 8*8*0.6	1				
	YBRM0021	camera adom, 39.8*11.8*0.3	1			Zhong Ming(http://www.yulong-e.cn)	
	YBRM0022	shell (set)	1				
	YBRM0023	keypad (set)	1				
	YBRM0024	stylus	1				
	YBRM0025	keypad frame	1				
	YBRM0016	keypad Metaldome	1		LAY005	Shenzhen FuWanFang Industry Co.,Ltd	
	YBRM0032	electric_foam_for_Jog Ball,13.5*10	1		MJY007		
		electric_foam_for_receiver, 2*6.	1				
		electric_foam_for_lcd, 40*18	1				
		electric_foam_for_lcd, 25*10	2				
	YBRM0033	YBR100 antenna PET	1		MJY016		
	YBRM0034	YBR100 double faced adhesive tape for antenna	1		MJY017		
	YBRM0036	insulating tape for spare battery , 6*6*0.07	1		MJY008		
	YBRM0037	insulating tape for LCD_FPC			MJY015		

	YBRM0038	0.5LCD foam, 88.6*53.64	1		MJY003	Shenzhen FuWanFang Industry Co.,Ltd	
		0.5 mic foam, 45.1*24	1				
		foam_lcd_conn,15*3	1				
		foam_tp_conn	1				
	YBRM0040	0.8 mic foam, Φ4.4	1		MJY005		
	YBRM0041	0.8 receiver foam, 9.8*4.8	1		MJY006		
	YBRM0043	filter-spk	1		MJY001		
	YBRM0044	double faced adhesive tape (tp) 99.8*54.8	1		MJY002		
		double faced adhesive tape (camera) 39.8*11.8	1				
	YBRM0046	grounded metal	1			Zhong Ming(http://www.yulong-e.cn)	
	YBRM0047	falcial mesh	1			Shenzhen City blueprint for the plastic Electronics Co.,Ltd.	
	YBRM0027	GSM antenna	1				
	YBRM0028	JOG Ball	1				
	YBRM0030	screw	4				
	YBRM0015	touch plane	1				
	YBRM0031	3.7' OLED	1		AMS369FG06-0	SAMSUNG	
		Main labeling	1				
	YBRM0029	main battery-950mAh	1		BL-6F		
		Headset	1				
		PC Cable	1				
		adapter	1				