

Part List, Electrical

Applicable for M600i, M608c

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1 Part list Main Board

Contains only components that are possible to replace on the main board.

Pos. number refers to the components position number on the board.

Some components are noted as MSL X. These components are moisture-sensitive and are rated at various levels (MSL):

- Level 1:** Unlimited floor life; does not require dry pack or re-baking.
- Level 2:** 1 year floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 2A:** 4 week floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 3:** 168 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 4:** 72 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 5:** 48 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 5A:** 24 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 6:** 6 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.

Component placing will be found in document 1078-2 FEA 209 544 101

NOTE! RF Calibration by using SERP can only be done by authorized repair centers.
Fence modification according to Working Instruction Electrical.

P=Primary side, S=Secondary side.

Side	Pos.	Description	Part Number	Comments
S	D2501	2-INP AND GATE Ultra Low Power	RYT 326 906/1	
P	D2663	USB OnTheGo Transceiver	RYT 109 906/1	
S	D5001	Microphone incl amp	RLC 509 438	
	E500	SHIELDING CAN LID	SXA 109 5962/11	
	E502	SHIELDING CAN LID	SXA 109 5962/22	
	E503	SHIELDING CAN LID	SXA 109 5962/44	
P	H2660	IRDA MODULE	RKZ 923 925	
P	N2662	ESD/EMI protection for USB	RKZ 923 926/1	
S	N3001	Bluetooth module BGB204	ROK 103 008/1	
S, P P	N4021, N404 N4060	Step-down DC/DC converter	RYT 113 916/1	



Side	Pos.	Description	Part Number	Comments
S	N4030, 4100 N4110	2.8V 150mA LINE REGULATOR LeadFree MicroSMD	RYT 113 904/10	
P	N4050	LDO 120mA Linear regulator	RYT 113 929/1	
P	N4055	LDO Voltage Regulator 150 mA	RYT 113 925/1	
S	N4057	1.2V Output CMOS Regulator	RYT 113 935/1	
P	N4070	LED Driver	RYT 113 7808/1	
P	N5010	ASIC TJATTE 2 (Pb-free package)	ROP 101 3059/2	MSL 3
P	N5500	Stereo Headphone Amplifier	RYT 101 950/1	
P	N5505	1W OPAMP Pb-Free version of RYT101947/1	RYT 101 947/2	
P	N2662	ESD/EMI protection for USB	RKZ 923 926/1	
P	V2672	ESD Protector 5.6V(Pb- free)	RKZ 223 903/2	
P, S	S2820, S2821	K750/Side push switch	RMD 101 16/4	
S	X1001	CONN/RF/EXTERNAL(KA LIA)	RPT 799 42	
S, S S, S	X1010, X1011 X1012, X3002	Internal Antenna Connector	RPV 799 41	
S	X2821	BATTERY CONTACT PAD/T10/T18	SXA 214 1752	
P S	X2823 X5502	CONN/RECPT/B-B/24 PIN	RNV 799 33/24	
P	X2824	BtB,LCD 30 PINS (FEMALE)	RNV 799 89	
S	X4000	K700i/Battery connector	SND 106 20	
S	X5500	SPRING CLIP	RPV 799 42	
S	V4001	diode, 40V, 80mA, SSM series, 150 ns	RKZ 123 907/1	
S, S	V4002, V4005	P-CHANNEL MOSFET	RYN 122 684/2	
S, S	V4004, V4006	Diode, Schottky	RKZ 123 911/1	
S	V4003	NPN DIG 50V 100mA SC75 22k/47k $V_{i(off)} \leq 0.6V$ $V_{i(on)} \geq 2.6V$	RYN 121 6069/1	
P	V4073	Transistor, NPN, Built in resistor R1=22k	RYN 121 931/1	
S	V4090	NFET SS 20V 100mA SOT416 12ohm ($V_{gs}=2.5V$) $V_{gs(th)}$ 0.5- 1.5V	RYN 123 698/1	
S, S	B2000, B2500	Crystal 32768HZ +-20PPM 12.5pF	RTM 501 911/1	Require calibration (SERP)
S	B2510	Crystal 13MHz 5*3,2mm	RTM 501 907/9	Require calibration (SERP)
S	D2005	ASIC Wanda 10x10 (Pb- free)	ROP 101 3044/4	Require calibration (SERP) MSL 3
S	N2000	ASIC Vincenne2 A07 1.5V Cu-Plug Thin Ni (Pb-free package)	ROP 101 3066/5	Require calibration (SERP) MSL 3



Side	Pos.	Description	Part Number	Comments
S	N1400	RAY UMTS Module	ROA 128 1112/Z	MSL 5A. Require calibration (SERP) Special Soldering Process Required - Authorized Repair Centers Only (SL4) Part not valid for M608c
S	D1100	MARLIN GSM RF Module	ROA 128 1640/Z	MSL 5A. Require calibration (SERP) Special Soldering Process Required - Authorized Repair Centers Only (SL4)
S	Z3001	Bandpass filter 2450 MHz	RTN 202 930/1	Require calibration (SERP) MSL 1

2 Revision History

Rev.	Date	Changes / Comments
1	2006-05-24	Initial release
2	2006-06-12	Change name of X1010, X1011,X1012, X3002 To Internal Antenna connector
3	2006-07-03	Changed part no D2663, D2005
4	2006-09-19	Corrected Part number D2663
5	2007-01-02	Added info of UMTS and GSM modules
6	2007-01-08	Corrected part number of D1100
7	2007-02-14	Added info for N1400 and D1100
8	2008-09-16	Change pos number on shiel can lids
9	2009-02-18	Removed component RMH99913/2