



Part List, Electrical

Applicable for P990i

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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_97

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
P	D2005	ASIC Wanda 10x10 (Pb-free)	ROP 101 3044/4	
P	D2501	2-INP AND GATE Ultra Low Power	RYT 326 906/1	
P	D2663	USB OnTheGo Transceiver	RYT 109 906/1	
P	D2741	SN74LVC126 Leadfree	RYT 326 917/1	
P	D5001	MICROPHONE	RLC 509 434	
S	D5501	Single gate 74LVC1G32 Leadfree	RYT 326 916/1	
P	D6000	Level shifter	RYT 113 996/1	
P	E1000	SHIELD BOX	SXA 109 6177/2	
S	E1001	SHIELD BOX	SXA 109 6177/6	
P	E2000	SHIELD BOX	SXA 109 6177/5	
P	E2001	SHIELD BOX	SXA 109 6177/1	
P	E2500	SHIELD BOX	SXA 109 6177/3	



Side	Pos.	Description	Part Number	Comments
S	E2501	SHIELD BOX	SXA 109 6177/7	
P	E3000	SHIELD BOX	SXA 109 6177/1	
P	E5000	SHIELDING BRIDGE	SXA 109 6412	
P	E6000	SHIELD BOX	SXA 109 6177/4	
P	H2660	IRDA MODULE	RKZ 923 925	
P	L1001 L1002 L1003 L1004	75ohm 0402 0.1A 0.8ohm Bead	REG 706 18/2	
P	N2000	ASIC Vincenne2 A07 1.5V (Pb-free package)	ROP 101 3066/5	
S	N2662	ESD protection diode array	RKZ 923 914/1	
S	N2663	LDO	RYT 113 929/2	
P	N3001	Bluetooth module BGB203 (EXT CLK)	ROK 103 006/2	
S	N5010	ASIC TJATTE 2 (Pb-free package)	ROP 101 3059/2	
S	N5500	Stereo Headphone Amplifier	RYT 101 950/1	
S	N5502	Single chip elec tuned FM stereo radio	RYT 109 905/3	
S	N5505	1W OPAMP Pb-Free version of RYT101947/1	RYT 101 947/2	
P	N6000	WLAN MODULE Wireless LAN 802.11b module with ARM uC,PA,RF TRX, filters and switches.	ROK 103 005/1	
P	S2820	K750/Side push switch	RMD 101 16/4	
S	S2821	Side switch key lock-right	RMD 801 07/2	
S	S2822	JOG DIAL (HOSIDEN new)	RMH 999 14	
P	W1300	Balun TX Low band	REG 735 9906/1	
P	W1301	Balun TX High band	REG 735 9906/2	
P	B2000, B2500	Crystal 32768HZ +-20PPM 12.5pF	RTM 501 911/1	Require calibration (SERP)
S	V2675	ESD Protector 5.6V(Pb- free)	RKZ 223 903/2	
P	V4001	diode, 40V, 80mA, SSM series, 150 ns	RKZ 123 907/1	
P	V4002, V4005	P-CHANNEL MOSFET	RYN 122 684/2	
P	V4003	NPN DIG 50V 100mA SC75 22k/47k Vi(off)<=0.6V Vi(on)>=2.6V	RYN 121 6069/1	
P	V4004, V4006	Diode, Shottky	RKZ 123 911/1	
S	X1001	CONN/RF/EXTERNAL(KA LIA)	RPT 799 42	
S	X1010 X1011 X1012	CONNECTOR, ANTENNA	RPV 799 41	
S	X2100	T28/SIM READER/SIEM.	RNK 860 43/1	



Side	Pos.	Description	Part Number	Comments
S	X2580	Z1010/MS DUO CONNECTOR (reversed)	RNK 860 117	
P	X2740 X2824	Violetta/30 Pin BtB,female	RNV 799 39	
P	X2741	BTB CONNECTOR, VIDEO CAMERA	RNV 799 65	
S	X2742	CONN. FLASH FLEX, BtB	RPV 799 44	
S	X2743	CONNECTOR, ZIF	RNV 799 90	
P	X2821 X2822	BATTERY CONTACT PAD/T10/T18	SXA 214 1752	
S	X2823	CONN/RECPT/B-B/24 PIN	RNV 799 33/24	
P	X2830	CONNECTOR 12 PINS	RPV 799 43	
S	X3001 X6000	Mechanical antenna switch	RPT 799 47	
S	X4000	K700i/Battery connector	SND 106 20	
S	X5500 X5501	CONNECTOR, LOUDSPEAKER	RPV 799 42	
P	N1000	RF SW/Dual Mode/Quad Band	RYT 901 956/1	Require calibration (SERP)
P	N1100	ASIC Tilde 6x6 (Pb-free package)	ROP 101 3073/1	Require calibration (SERP)
P	N1300	QUAD BAND GSM PA	RYT 101 7810/1	Require calibration (SERP)
P	N1400	Ray/UMTS-module	ROA128112/Z	MSL 5A. Require calibration (SERP) Special Soldering Process Required - Authorized Repair Centers Only (SL4)



2 Revision History

Rev.	Date	Changes / Comments
A	2006-07-19	Initial release
B	2007-01-02	Info of UMTS module added
C	2007-02-14	Repair Level for RAY N1400 changed to Level 4
D	2007-04-11	Added V2675