



Part List, Electrical

Applicable for Z780i,Z780a,TM506

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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 1211-9590

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	X2200	Battery Connector	SND10620	
P	X2405	MS-Micro Pico holder	RNK87147/2	
P	X1200	Conn Antenna	RPT79947	
P	X4200	Conn BtB	1200-2263	
P	X2410	SIM Card Connector	1203-5307	
P	X1201	Antenna Pogopin 3p Connector	1201-7954	
P	X3101,X3102	Antenna Pin Connector	SND90158	
P	N1400	Module Bluetooth + FM STLC2592	1200-6182	MSL3
P	E1000	Shield Can Fence	1202-3273	
P	B3100	Microphone	RLC509443/1	
P	S2431,S2432	Input Switch side push	RMD10116/9	



S	V2422-V2425	LED White 1,8x1x0,3	1200-5970	
S	B2400	MR Sensor	RYN901920/1	
S	N3101	ASIC TjAT&Te3 CSP20	ROP1013074/1	
P	V2405	Trans	RYN901918/2	
P	D2404	MICROCIRCUIT/USB transceiver and UART MU	RYT109913/1	
P	N2400	IC	RYT109914/1	
P	N3100	IC Amp 9-Pin Flip-Chip	1204-5680	
P	V2202	TRANS V;DUAL_P MOSFET;BYX101603_A;REQ318	RYN122910/1	
P	N2302	2ch-LDO, Vout1=2.8V, Vout2=1.8V, WL-CSP6	RYT113997/4	
P	N2301	LDO1.2 V, 200mA, low noise, CS 5	RYT1137816/3	
P	N2402	IC ESD Prot UDFN 6 2x2 mm	1200-6309	
P	V2420,V2421	Diode Zener 15, V SOD523	RKZ223905/2	
P	V2427,V2428	Dual ESD protection diode	RKZ223914/1	
P	V2429	Diode Protection 0.7 V SOD-882	1201-2253	
S	L2401-L2404	Filter 0.0 Hz 0402	REG70618/20	
P	C3123,C3137	Capacitor Ceramic 220,0 nF +/- 10% 6,3 V	RJC5163026/22	
P	D2405	IC	RKZ923921/1	
P	C2203	Capacitor 22uF	RJC5164048/22	
P	N2205	DC/DC Converter	RYT1137838/1	
P	N2202	IC Vreg SON-6	1200-0373	
S	V2402,V2411 V2407-V2410	Diode Schottky 0,28 V	1200-2065	
On FPC	Receiver	Ear Speaker 1107.0 Rectangular	1201-5051	
P	V4207	Trans Array	1200-0320	
P	B2100	Crystal 32,768 kHz	RTM501911/1	Require calibration (SERP)
P	N1002	PA in Thor Module	1200-9356	Require calibration (SERP) MSL R5A Special Soldering Process Required - Authorized Repair Centers Only
P	N1200	RF-Module Thor Pre-bumped	1203-6579	Require calibration (SERP) MSL R5A Special Soldering Process Required - Authorized Repair Centers Only
P	N1210	RF-Module Mammoth Pre-bumped	1204-1670 (Z780) 1210-1487 (TM506)	Require calibration (SERP) MSL R5A Special Soldering Process Required - Authorized Repair Centers Only
P	R2441	47Kohm 1% Resistor	REP 621 105/47	
P	L1211	Ind WW 2,7 nH 2% K0402	REG 704 1181/27G	TM506 only
P	L1211	Ind Chip 3.0 nH +/- 0.1 0402	1208-5038	Z780 only
P	R2200	Resistor 25, mOhm +/-1% 125.0 mW K0402	REP622650/025	

2 Revision History

Rev.	Date	Changes / Comments
1	2008-05-30	First release
2	2008-06-13	Adding TM506 project.
3	2008-10-7	Adding R2441
4	2008-12-18	Adding N1002
5	2009-3-3	B2100: Change comments from “SL4” to “Require calibration (SERP)”
6	2009-04-08	Adding L1211
7	2009-06-12	Adding R2200