



# Part List, Electrical

Applicable for T650 and T658

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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;  $\leq 30$  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;  $\leq 30$  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;  $\leq 30$  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;  $\leq 30$  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;  $\leq 30$  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;  $\leq 30$  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;  $\leq 30$  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 209 544/118.

**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	B2100	Crystal 32,768 kHz	RTM 501 911/2	Require calibration (SERP)
S	B8200	Microphone	RLC 509 427/3	
S	B8500	Vibrator	1200-0299	
S	C8528	Backup battery	RJE 355 1335/7	
S	N4100	1W OPAMP Pb-free version	RYT 101 947/2	
S	N4202	ASIC Tjatte3	ROP 101 3074/1	
P	N8000	Marlin module	ROA 128 1640/Z	Require calibration (SERP) MSL 5A
S	N8020	Module Bluetooth	1200-0109	MSL 3
S	N8503	Voltage regulator 2,8V	RYT 113 7822/1	
P	S8501	Side push switch	RMD 101 48	
P	S8502			
P	S8503			
P	V8503	LED Red Side fire	RKZ 433 924/1	



Side	Pos.	Description	Part Number	Comments
S	X6000	Antenna switch	RPT 799 47	
P	X8501	26pin BtB	1200-0293	
S	X8503			
P	X8502	26pin BtB	1200-6457	
S	X8504	Camera Socket 3MPixel	1200-0417	
P	X8505	Vga Socket	1200-0374	Only! T650
P	X8506	Pogopin connector	1200-0703	
S	D2200	IC High speed LDO	RYT 113 7839/1	
S	D2304	USB Tranciever	RYT 109 922/1	
		Camera ISP	RYT 123 927/1	
S	N2000	Vincenne2	ROP 101 3066/6	Require calibration MSL 3
S	N3101	N-Channel MOSFET and Schottky Barrier Diode	RYN 901 936/1	
S	N8100	IC	1200-2296	
S	N8500	Light Sensor	RKZ 433 938/1	
S	V2201	Diode, Shottky Barrier	RKZ 123 929/1	
S	V2202	P-Channel MOSFET	RYN 122 911/1	
S	V2203			
S	V2204	Zenner Diode, 15V	RKZ 223 921/1	
P	V2305			
S	V2504	Diode Schottky 0,28 V	1200-2065	
S	V8100	Diode, Shottky, Pb Free	RKZ 123 913/1	
S	X8000	Conn Leaf Spring Antenna conn	1200-2144	
S	X8001			
S	X8500	Battery Connector	1200-0331	
P	Z3100	Filter 400.0 MHz KNA16400	REV 501 46/1	
P	Z3101			
P	Z3102			
P	N8010	Ray 2,5	ROA 128 2082/Z	Only! T658 Require calibration (SERP) MSL 5A
S	C4126	Capacitor Ceramic 470,0 nF +/-10% 6,3 V	RJC 516 3026/47	
S	D8500	Camera ISP	RYT 123 927/1	
S	N8506	IC ESD Protection	1200-6309	
S		Shield Can	1201-6260	
S		Shield Can Bt	1201-5557	
P,P P,P	L4102, L4103 L8502, L8503	Ind Chip 0.0 mH 0603	1201-0706	

## 2 Revision History

Rev.	Date	Changes / Comments
A	2007-08-16	Initial release
B	2007-09-03	Added V2203, V2305
3	2008-06-11	Changed name for Camera sockets
4	2008-06-19	Changed Only! T650 to VGA socket
5	2009-02-18	Added 1201-0706