

Twitoo

Bill of Material

Sub part:

Main PCB

Revision:

2.2

Date:

15.12.2011

Quantity	Designator	Top side instances	Bottom side instances	Manufacturer	Supplier	Supplier reference
3	Capacitor X7R 100nF 10% 50V 0603 RoHS compliant \$	C401, C403, C405		Samsung	Rutronik	KKK14272
2	Capacitor X7R 22pF 10% 50V 0603 RoHS compliant \$		C200, C201	Samsung	Rutronik	KKK14322
1	Capacitor X7R 1µF 10% 16V 0805 RoHS compliant \$	C202		Samsung	Rutronik	KKK19101
3	Capacitor X5R 10µF 10% 10V 0805 RoHS compliant \$	C204, C205, C600		Samsung	Rutronik	KKK18335
3	Capacitor X7R 2.2µF 10% 10V 0805 RoHS compliant \$	C400, C402, C404		Samsung	Rutronik	KKK18297
1	Capacitor tantale 100µF 20% 10V B ESR 1.4 ohms/ 100kHz AVX REF TAJB107M010RNJ RoHS compliant \$	C203		AVX	Farnell	1658150
2	Capacitor NPO 100pF 1% 50V 0603 RoHS compliant \$	C210, C211		Samsung	Rutronik	KKK15923
4	Capacitor NPO 33pF 5% 50V 0603 \$	C701, C702, C703, C704		Samsung	Rutronik	
14	Capacitor NPO 15pF 5% 50V 0603 RoHS compliant \$	C206, C207, C208, C209, C502, C503, C601, C602, C603, C604, C605	C500, C501, C504	Samsung	Rutronik	KKK14299
1	Switch type FSM4JSMATR RoHS compliant \$		S200	Tyco	Mouser	506-FSM4JSMATR
1	Quartz 32.768kHz +/-30PPM type KX-327S RoHS compliant \$		Y200	Geyer	Novitronic	
1	Fuse 1.1A PFMF.110.2 RoHS compliant \$	F200		Schurter	Mouser	652-MF-MSMF110-2
1	Resistor 0R1 1% 0805 RoHS compliant \$	R223		Yageo	Rutronik	WRC37897
1	Resistor 100R 1% 1206 RoHS compliant \$	R610		Yageo	Rutronik	WRC31783
2	Resistor 10R 1% 1206 RoHS compliant \$	R609	R502	Yageo	Rutronik	WRC31739
2	Resistor 68R 1% 1206 RoHS compliant \$	R511, R512		Yageo	Rutronik	
5	Resistor 0R 1% 0603 RoHS compliant \$	R211, R215, R603, R711	R507	Yageo	Rutronik	WRC37228
2	Resistor 100K 1% 0603 RoHS compliant \$	R216, R600		Yageo	Rutronik	WRC32537
7	Resistor 10K 1% 0603 RoHS compliant \$	R210, R220, R515, R602, R606, R608, R709		Yageo	Rutronik	WRC32607
5	Resistor 100R 1% 0603 RoHS compliant \$	R702, R703, R704, R705	R503	Yageo	Rutronik	WRC32521
13	Resistor 220R 1% 0603 RoHS compliant \$	R200, R206, R208, R214, R217, R505, R513, R514, R605, R607, R708	R501, R506	Yageo	Rutronik	WRC32553
1	Resistor 39K 1% 0603 RoHS compliant \$	R212		Yageo	Rutronik	WRC30485
1	Resistor 680K 1% 0603 RoHS compliant \$	R205		Yageo	Rutronik	
4	Resistor 15K 1% 0603 RoHS compliant \$	R203, R204	R304, R305	Yageo	Rutronik	WRC33387
8	Resistor 68K 1% 0603 RoHS compliant \$	R201, R209, R218, R219, R508, R516	R504, R509	Yageo	Rutronik	WRC32535
1	Resistor 470K 1% 0603 RoHS compliant \$	R604		Yageo	Rutronik	WRC39327
9	Resistor 1K 1% 0603 RoHS compliant \$	R222, R306, R307, R308, R309, R400, R402, R611	R404	Yageo	Rutronik	WRC32599
1	Resistor 10R 1% 0603 RoHS compliant		R500	Yageo	Rutronik	WRC32694
1	Resistor 2K4 1% 0603 \$	R221		Yageo	Rutronik	WRC39624
2	Resistor 27R 1% 0603 RoHS compliant \$		R302, R303	Yageo	Rutronik	WRC32703
1	Resistor 6k2 1% 0603 RoHS compliant \$		R202	Yageo	Rutronik	WRC33053

1	Transducer audio type MLT-03CHN RoHS compliant \$		Y500	Star Micronics	Farnell	1299756
1	Bluetooth module LMX9838SBX RoHS compliant \$	U400		National / Texas Instruments	Arrow	LMX9838SBX
1	GE863-PRO3 4/ 64MB SDRAM with Linux OS RoHS compliant \$	U1		Telit	Telion	
2	Diode BAT54C SOT23 RoHS compliant \$	D202, D203		Fairchild / Infineon / NXP	Rutronik	BAT54C
1	Diode BAT54A SOT23 RoHS compliant \$		D700	Fairchild / Infineon / NXP	Rutronik	BAT54A
1	Diode BAT54 SOT23 RoHS compliant \$	D201		Fairchild / Infineon / NXP	EBV	BAT54
1	Green Led LGM676 SMT RoHS compliant \$	D501		Osram	EBV	LGM676
1	Orange Led LOM676 SMT RoHS compliant \$	D502		Osram	EBV	LOM676
1	Blue Led LBM673-M1N2 SMT RoHS compliant \$	D500		Osram	EBV	LBM673-M1N2
7	Transistor 2N7002 SOT23 RoHS compliant \$	Q200, Q202, Q203, Q503, Q601, Q602, Q702		Fairchild / NXP / ST	EBV	2N7002
6	Transistor BC847B SOT23 RoHS compliant \$	Q201, Q205, Q504	Q500, Q501, Q502	Fairchild / NXP / ST	EBV	BC847B
1	transistor MOSFET IRF7307 SO8 RoHS compliant \$	Q600		International Rectifier	Arrow Avnet Silica	IRF7307
1	Voltage regulator LP38502ASD-ADJ LLP RoHS compliant \$	U200		National / Texas Instruments	EBV	LP38502ASD-AD
1	SIM card holder type CH03-AA-A RoHS compliant \$	SIM700		Gradconn	Rutronik	WIREAC1134
1	Battery Li-ion Polymer 3.7V 1200mA/h, with PCM and 3 wires 60mm red-white-black \$	BT200		Narada	Narada	NL503759H

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Bill of Material

Sub part:

Extension PCB

Revision:

2.1

Date:

15.12.2011

Quantity	Designator	Top side instances	Manufacturer	Supplier	Supplier reference
2	Capacitor X7R 100nF 10% 50V 0603 RoHS compliant \$	C901, C904	Samsung	Rutronik	KKK14272
1	Capacitor X7R 1µF 10% 16V 0603 RoHS compliant \$	C900	Samsung	Rutronik	KKK18685
1	Capacitor X5R 10µF 10% 10V 0805 RoHS compliant \$	C3	Samsung	Rutronik	KKK18335
1	Capacitor X7R 22nF 10% 50V 1206 RoHS compliant \$	C903	Samsung	Rutronik	KKK14508
1	Vibrator motor SMD Sanyo RS-3025 RB5-10.5 RoHS compliant \$	B900	Sanyo	Ruida	
1	Resistor 0R 1% 0603 RoHS compliant \$	R904	Yageo	Rutronik	WRC37228
1	Resistor 4K7 1% 0603 RoHS compliant \$	R901	Yageo	Rutronik	WRC32621
1	Resistor 220R 1% 0603 RoHS compliant \$	R902	Yageo	Rutronik	WRC32553
1	Resistor 68K 1% 0603 RoHS compliant \$	R903	Yageo	Rutronik	WRC32535
1	Resistor 1K 1% 0603 RoHS compliant \$	R900	Yageo	Rutronik	WRC32599
1	LP5951-3.0 SOT23-5 RoHS compliant \$	U1	National / Texas Instruments	EBV	LP5951MF-3.0
1	White Led LWM673-Q1R2-5K8L-Z SMT RoHS compliant \$	D900 face bottom	Osram	Rutronik	LED7630
1	Transistor 2N7002 SOT23 RoHS compliant \$	Q900	NXP	Farnell	1758065
1	Touch sensor AT42QT100A WSON6+SLUG RoHS compliant \$	U900	Atmel	Arrow	AT42QT100A

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Sub part:

Product assembly

Revision:

N/A

Date:

15.12.2011

Quantity	Designator	Details	Manufacturer	Supplier	Supplier reference
1	Custom plastic case top part \$	Top case	Ruida	Ruida	
1	Custom plastic case bottom part \$	Bottom case	Ruida	Ruida	
4	Rubber feet, white, round, 1,6mm x diam 12,0mm \$	Feet	3M	Gomatec Wilba Sàrl	
1	USB cable, white 2.5m \$	Cable	CNKEEN	CNKEEN	
1	Flex cable B06-P084-A RoHS compliant \$	Link between main and ext. PCB	Sumida	Simpex	B06-P084-A
1	Power supply 5V/1A UE05WCP-050 100 SPA, WHITE \$	Power adaptor	FUHUA Electronic	FUHUA Electronic	UE05WCP-050 100 SPA, White
1	Plug CE for Power supply UE05WCP-050 100 SPA, WHITE \$	European plug for power adapter	FUHUA Electronic	FUHUA Electronic	AC Plug for EU
1	Glass ballast \$	Mounted inside the case	BAOYU Photoelectricity	BAOYU Photoelectricity	
1	Custom light guide \$		Savimex	HD2A	SAVIMEX L825
4	Screw BN13577 KA30x6 \$	Close top and bottom cases	Bossard	Bossard	
5	Screw KA22x10 Phillips BN13577 \$	Main PCB fixation	Bossard	Bossard	
4	Screw KA22x5 Phillips BN13577 \$	Extension PCB fixation	Bossard	Bossard	