

Bill of Materials

Client: _____
 Project: **T-Patch GPS V1.0**
 Engineer: **Jeremy Holdcroft**
 Variant: **None**



Creation Date: **2012/11/30** 02:13:08 PM
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Item	Designator	Quantity	Value	Description	Manufacturer	Manufacturer Part No
1	ANT1	1		Grounded line planar antenna	Linux	ANT-916-SP2
2	BT1	1		Shenzhen through hole AA Battery holder	Shenzhen	BA2AAFC
3	C1, C5, C11, C21, C23, C25, C27	7	100nF	Chip Cap 0603 X7R	Generic Components	
4	C2, C14	2	100pF	Chip Cap 0603 X7R	Generic Components	
5	C3, C7, C8, C22, C26	5	33pF	Chip Cap 0402 X7R	Murata	GRM15 series
6	C4, C6	2	2.2uF	Chip Cap 0603 X7R	Generic Components	
7	C9, C15	2	56pF	Chip Cap 0402 X7R	Murata	GRM15 series
8	C10	1	3.0pF	Chip Cap 0402 X7R	Murata	GRM15 series
9	C12	1	5.6pF	Chip Cap 0402 X7R	Murata	GRM15 series
10	C13	1	1uF	Chip Cap 0603 X7R	Generic Components	
11	C16, C17	2	4.3pF	Chip Cap 0402 X7R	Murata	GRM15 series
12	C18	1	6.8pF	Chip Cap 0402 X7R	Murata	GRM15 series
13	C19	1	3.3pF	Chip Cap 0402 X7R	Murata	GRM15 series
14	C20, C24	2	4.7uF	Chip Cap 0603, 6.3V X5R	Generic Components	
15	FB1	1	180R	Ferrite Bead 0603	Murata	BLM18PG181SN1
16	L1	1	120nH	Chip Inductor 0402 5%	Coil Craft	0402HPH-R12XLU
17	L2, L3	2	12nH	Chip Inductor 0402 5%	Coil Craft	0402HP-12NXLU
18	L4	1	5.6nH	Chip Inductor 0402 5%	Coil Craft	0402HP-5N6XLU
19	L5	1	8.2nH	Chip Inductor 0402 5%	Coil Craft	0402HP-8N2XLU
20	L6	1	11nH	Chip Inductor 0402 5%	Coil Craft	0402HP-11NXLU
21	Q1, Q2	2		P-Channel MOSFET	FAIRCHILD	FDN340P
22	R1	1	1K	Chip Resistor 0603	Generic Components	
23	R2	1	100K	Chip Resistor 0603	Generic Components	
24	R3	1	50R	Chip Resistor 0402 1%	Generic Components	
25	R4, R9, R10	3	22K	Chip Resistor 0603 1%	Generic Components	
26	R5, R6, R7, R11	4	1K	Chip Resistor 0603 1%	Generic Components	
27	U1	1		SI1010 16KB 8051 MCU with integrated EZRadioPro Transceiver	Silicon Labs	SI1010
28	U2	1		RF Switch	NEC	UPG214TB
29	U3	1		GPS Receiver Module NEO-6Q	UBLOX	NEO-6Q
30	U4	1		GPS Patch Antenna 18x18x2mm	Taoglas	GP-1575-18.2.A.02
31	U5	1		16Mbit Datalflash, SPI WSON 8-Pin	SST	SS1725V016B-80-4I-QAE
32	X1	1		Crystal SMT, low profile 4-Pin 30MHz	TAI-SAW Technology Co.	TZ1430A 30.000000 Mhz

Approved _____

Notes _____

Jeremy Jones

28/01/2013