

Bill Of Materials February 7, 2014 5:13:13

Item	Qty	Reference	Part Value	Voltage	Current	Tol	Type	Part Number	Manufacturer	Price
1	1	ANT1	AN-1-0361-2 A10137				Ant GPS Co-planar Pas SMT	AN-1-0361-2	Antenova	\$2.27
2	4	BAT1-,BAT1+,BAT2-,BAT2+	BAT-CLP-AAA-SM-EAR				Bat Clip SMT AAA Ears 2-Pads	55	Keystone	\$0.29
3	2	C1,C2	10pF	50V		5%	NP0			\$0.01
4	9	C3,C4,C6,C7,C20,C24,C25, C26,C31	100nF	50V		10%	X7R			\$0.01
5	0	C10	0.0pF	50V		0.10pF	NP0 Ultra High Q		Johanson Technology	\$0.03
6	1	C11	1.0pF	50V		0.10pF	NP0 Ultra High Q	500R07S1R0BV4T	Johanson Technology	\$0.03
7	1	C12	1.5pF	50V		0.10pF	NP0 Ultra High Q	500R07S1R5BV4T	Johanson Technology	\$0.03
8	6	C13,C16,C17,C19,C22,C23	22uF	16V		10%	X5R			\$0.18
9	3	C14,C29,C30	47pF	50V		5%	NP0			\$0.01
10	3	C15,C18,C28	10nF	50V		10%	X7R			\$0.01
11	1	C21	27pF	50V		5%	NP0 Ultra High Q	500R07S270JV4T	Johanson Technology	\$0.05
12	1	C27	10uF	35V		10%	X6S			\$0.12
13	2	D1,D2	PMEG4010CEJ	40V	1A		Schottky Power	PMEG4010CEJ	NXP	\$0.09
14	1	FB1	220ohm@100MHz		2.0A		Hi-Freq WideBand	BLM18EG221SN1D	muRata	\$0.06
15	3	JPTX,JPRX,JPEN	0.0		2.0A	50mohm Max	0ohm Jumper Silver 2A			\$0.01
16	1	JPTP	0.0		2.0A	50mohm Max	0ohm Jumper Silver 2A			\$0.01
17	0	J1	ISP-6-PIN		3.0A		Hdr 2.54mmP Pin TH Strt 2x3 8.1mmPL			
18	1	J2	67503-1020				USB Mini-B 5-pin Rcpt RA SM Posts	67503-1020	Molex	\$0.29
19	1	J3	DM3AT-SF-PEJM5	125Vac	0.5A		SD u 10-pin RA SM Nrml Psh-Psh 10KC	DM3AT-SF-PEJM5	Hirose	\$1.30
20	0	J4	JP2-O							
21	2	J5,J7	PREC008SFAN-RC	1000Vac	3A		Hdr 2.54mmP Pin TH Strt 1x8 8.1mmPL	PREC008SFAN-RC	Sullins	\$0.18
22	1	J6	PREC010SFAN-RC	1000Vac	3A		Hdr 2.54mmP Pin TH Strt 1x10 8.1mmPL	PREC010SFAN-RC	Sullins	\$0.19
23	0	J8	CON4S/100							
24	0	J9	CON2S/100							
25	2	LED1,LED3	LTST-C155KGJRK	2.0V	30mA		Green+Red Dual LED	LTST-C155KGJRK	Lite-On	\$0.08
26	1	LED2	L293-M2P1-36-1-10-R18-Z	3.1V	20mA		Blue LED 3.1V	L293-M2P1-36-1-10-R18-Z	Osram	\$0.30
27	1	L1	4.7uH		2.7A	20%	Ferrite Shielded 57mohm 26MHz	XFL4020-472MEC	Coilcraft	\$0.55
28	1	PCB1BOM1	PCB GC-F01 Rev. B				BLANK-PCB	GC-F01 Rev.B		
29	2	P5,P7	PPPC081LFBN-RC	500Vac	3A		Hdr 2.54mmP Skt TH Strt 1x8S 6.0mmID	PPPC081LFBN-RC	Sullins	\$0.42
30	1	P6	PPPC101LFBN-RC	250V	3A		Hdr 2.54mmP Skt TH Strt 1x10S 6.0mmID	PPPC101LFBN-RC	Sullins	\$0.52
31	1	Q1	FDMA507PZ	-20V	-7.8A		P-Ch MOSFET -20Vds 8Vgs Pwr L1.8	FDMA507PZ	Fairchild	\$0.34
32	1	R1	10.0K	50V		1%	Thick Film			\$0.01
33	3	R2,R5,R6	1.00K	50V		1%	Thick Film			\$0.01
34	8	R3,R4,R7,R8,R9,R11,R21, R22	619			1%	Thick Film			\$0.01
35	2	R10,R16	357K			1%	Thick Film			\$0.01
36	2	R12,R14	100K	50V		1%	Thick Film			\$0.01
37	1	R13	22.1K	50V		1%	Thick Film			\$0.01
38	1	R15	576K			1%	Thick Film			\$0.01
39	4	R17,R18,R19,R20	150			1%	Thick Film			\$0.01
40	1	SW1	FSM2JSMA	12Vdc	50mA		Tact Mom SPST 0.10o 1.6N 100KC 0.7mBL	FSM2JSMATR	Alcoswitch-Tyco	\$0.24
41	1	SW2	AYZ0102AGRLC	12V	100mA		Slide Mini SPDT RA SMT	AYZ0102AGRLC	ITT-C&K	\$0.50
42	1	U1	ATMEGA168PA-MU (or 328P)	1.8-5.5V			uC AVR 8-bit 16KB ISP (328P 32KB)	ATmega168PA-MU	Atmel	\$2.17
43	1	U2	MAX-6Q-0	2.5-3.5V	47mA		GPS Rcvr Ext Ant UART IIC VCCI	MAX-6Q-0-001	u-blox	\$14.85
44	1	U3	ADP1712AUJZ-3.0	2.5-5.5Vs	300mA		VReg Lo Dropout 0.3A 3.0V En SS	ADP1712AUJZ-3.0-R7	Analog Devices	\$0.66
45	1	U4	AS1337A-BTDT	0.7-4.5Vs	0.2A		Step-Up DC-DC VReg Sync	AS1337A-BTDT	austriamicro	\$0.83
46	1	U5	FT232RQ	4.0-5.25V			USB UART	FT232RQ	Vinculum FTDI Chip	\$2.34
47	1	X1	16.000MHz			20ppm	NX3225GA 4Pn Par 8pF -40-85C	NX3225GA-16.000M-STD-CRG-2	NDK	\$0.48
48	0	1,2,3,4,5	TH20x13				Test Point 30AWG TH 0.254mmID			\$0.01
			Highest Ref Used:							\$32.33
			Ref Not Used:							
			Do Not Install: C10, J1, J4, J8-J9, TP1-TP5							
			J5, J6, J7 can be PREC040SFAN-RC broken to size							

