		UINO Revised: Friday, February	07, 2014							
From GC-		e-BOM Revision: B		i !	ļ					
PS COO		101011. 13)		 						+
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ill Of Mat	erials	February 7,2014 5:13:13			-					ļ
Item	Qty	Reference	Part Value	Voltage	Current	Tol	Туре	Part Number	Manufacturer	Pric
]					1
1	1	ANT1	AN-1-0361-2_A10137	ļ	ļ		Ant GPS Co-planar Pas SMT	AN-1-0361-2	Antenova	\$2.2
2	4	BAT1-,BAT1+,BAT2-,BAT2+	BAT-CLP-AAA-SM-EAR			5%	Bat Clip SMT AAA Ears 2-Pads	55	Keystone	\$0.2
3 4	2 9	C1,C2 C3,C4,C6,C7,C20,C24,C25,	10pF 100nF	50V 50V	ļ	5% 10%	NP0 X7R			\$0.0 \$0.0
4	9	C3,C4,C6,C7,C20,C24,C25,	TOUTIF	50V	}	1076	A/K	<u> </u>		\$0.0
5	0	C10	0.0pF	50V	ļ	0.10pF	NP0 Ultra High Q		Johanson Technology	\$0.0
6	1	C11	1.0pF	50V	 	0.10pf	NP0 Ultra High Q	500R07S1R0BV4T	Johanson Technology	\$0.0
7	1	C12	1.5pF	50V	 	0.10pF	NP0 Ultra High Q	500R07S1R5BV4T	Johanson Technology	\$0.0
8	6	C13,C16,C17,C19,C22,C23	22uF	16V		10%	X5R			\$0.1
9	3	C14,C29,C30	47pF	50V		5%	NP0			\$0.0
10	3	C15,C18,C28	10nF	50V		10%	X7R		!	\$0.0
11	1	C21	27pF	50V]	5%	NP0 Ultra High Q	500R07S270JV4T	Johanson Technology	\$0.0
12	1	C27	10uF	35V	1	10%	X6S		<u> </u>	\$0.1
13	2	D1,D2	PMEG4010CEJ	40V	1A		Schottky Power	PMEG4010CEJ	NXP	\$0.0
14	1	FB1	220ohm@100MHz	 	2.0A		Hi-Freq WideBand	BLM18EG221SN1D	muRata	\$0.0
15	3	JPTX,JPRX,JPEN JPTP	0.0	ļ	2.0A	50mohm Max 50mohm Max	0ohm Jumper Silver 2A		ļ	\$0.0
16 17	0		0.0 ISP-6-PIN	<u> </u>	2.0A 3.0A	50monm wax	0ohm Jumper Silver 2A Hdr 2.54mmP Pin TH Strt 2x3 8.1mmPL		<u> </u>	\$0.0
18	1	J1 J2	67503-1020	ļ	3.UA		USB Mini-B 5-pin Rcpt RA SM Posts	67503-1020	Molex	\$0.2
19	-	J3	DM3AT-SF-PEJM5	125Vac	0.5A		SD u 10-pin RA SM Nrml Psh-Psh 10KC	DM3AT-SF-PEJM5	Hirose	\$1.3
20	0	J4	JP2-O	120 vac	0.57	ļ	OD U 10-pii 104 OW 1411ii 1 311 1 311 1 1010	DWOAT-OF-I LOWO	1111030	Ψ1.0
21	2	J5,J7	PREC008SFAN-RC	1000Vac	3A		Hdr 2.54mmP Pin TH Strt 1x8 8.1mmPL	PREC008SFAN-RC	Sullins	\$0.1
22	1	J6	PREC010SFAN-RC	1000Vac	3A		Hdr 2.54mmP Pin TH Strt 1x10 8.1mmPL	PREC010SFAN-RC	Sullins	\$0.1
23	0	J8	CON4S/100		1					1
24	0	J9	CON2S/100	i	†				······	1
25	2	LED1,LED3	LTST-C155KGJRKT	2.0V	30mA		Green+Red Dual LED	LTST-C155KGJRKT	Lite-On	\$0.0
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	\$0.3
27	1	L1	4.7uH		2.7A	20%	Ferrite Shielded 57mohm 26MHz	XFL4020-472MEC	Coilcraft	\$0.5
28	1	PCB1BOM1	PCB GC-F01 Rev. B				BLANK-PCB	GC-F01 Rev.B	-	1
29	2	P5,P7	PPPC081LFBN-RC	500Vac	3A		Hdr 2.54mmP Skt TH Strt 1x8S 6.0mmlD	PPPC081LFBN-RC	Sullins	\$0.4
30	1	P6	PPPC101LFBN-RC	250V	3A		Hdr 2.54mmP Skt TH Strt 1x10S 6.0mmID	PPPC101LFBN-RC	Sullins	\$0.5
31 32	1	Q1 R1	FDMA507PZ	-20V 50V	-7.8A	1%	P-Ch MOSFET -20Vds 8Vgs Pwr L1.8 Thick Film	FDMA507PZ	Fairchild	\$0.3
33	3	R2.R5.R6	10.0K 1.00K	50V		1%	Thick Film		· 	\$0.0
34	8	R3,R4,R7,R8,R9,R11,R21,	619	30 V		1%	Thick Film		-	\$0.0
		R22			ļ	170	THICKTIIII	+	 	+ 40.0
35	2	R10.R16	357K	 	ļ	1%	Thick Film	-	 	\$0.0
36	2	R12,R14	100K	50V		1%	Thick Film			\$0.0
37	1	R13	22.1K	50V	†	1%	Thick Film			\$0.0
38	1	R15	576K			1%	Thick Film			\$0.0
39	4	R17,R18,R19,R20	150		[1%	Thick Film			\$0.0
40	1	SW1	FSM2JSMA	12Vdc	50mA		Tact Mom SPST 0.10o 1.6N 100KC 0.7mBL	FSM2JSMATR	Alcoswitch-Tyco	\$0.2
41	1	SW2	AYZ0102AGRLC	12V	100mA		Slide Mini SPDT RA SMT	AYZ0102AGRLC	ITT-C&K	\$0.5
42	1	U1	ATMEGA168PA-MU (or 328P)		47		uC AVR 8-bit 16KB ISP (328P 32KB)	ATmega168PA-MU	Atmel	\$2.1
43	1	U2	MAX-6Q-0	2.5-3.5V	47mA		GPS Rovr Ext Ant UART IIC VCCi	MAX-6Q-0-001	u-blox	\$14.
44 45	1	U3 U4	ADP1712AUJZ-3.0 AS1337A-BTDT	2.5-5.5Vs			VReg Lo Dropout 0.3A 3.0V En SS	ADP1712AUJZ-3.0-R7 AS1337A-BTDT	Analog Devices	\$0.6 \$0.8
46	1	U4 U5	FT232RQ	0.7-4.5Vs 4.0-5.25V	U.ZA		Step-Up DC-DC VReg Sync USB UART	AS1337A-B1D1 FT232RQ	austriamicro Vinculum FTDI Chip	\$0.8
47	1	X1	16.000MHz	+.U-J.ZJV	 	20ppm	NX3225GA 4Pn Par 8pF -40-85C	NX3225GA-16.000M-STD-CRG-2	NDK	\$0.4
48		1,2,3,4,5	TH20x13	 		Zoppiii	Test Point 30AWG TH 0.254mmID	117.02200A-10.000W-01D-0RG-2	NUN	\$0.2
		1,2,0,7,0	11120010	 	<u> </u>		10011 0111 007 111 0.20 111111111	+	 	ψυ.υ
		·	Highest Ref Used:	ļ !	 				 	\$32.
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			Ref Not Used:	<u> </u>]					I
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					1					1
			Do Not Install: C10, J1, J4,						<u> </u>	
			J8-J9, TP1-TP5	ANI DO heed	<u> </u>				-	
		1	J5, J6, J7 can be PREC040SF	AIN-KC DIO	CELL TO SIZE			1	1	<u>: </u>

	PCB Footprint
ь	ANT_AN-1-0361-2 ATT-AAAx2-Ser-Clip-SMT
	C0402
	C0402
	C0402
	C0402 C0402
	C0402
	C0402
	C0402
	C0402
	C1206 SOD-323
	L0603
	JP3-0805
	R0805
	CON2x3/100 ON5 USB MINI-B-5 RA P
C	CON-SD-u-DM3AT
	CON OB a Billion
	CON8S/100
	CON10S/100
	LED4P-3227m
	D0603
	IND-XFL4020
C	ON1X8/100-SKT-PPPCLFB
	N1X10/100-SKT-PPPCLFB
	MicroFet6-2x2
	R0402
	R0402 R0402
	R0402
	R0402
	R0402
	R0402 R0402
	R0402 R0402
	SW-TACT-6MM-SMT
	7253m
	QFN-32-5mm
	DFN-18-11x10mm_MAX6 TSOT-5
	TDFN8-3mm
	QFN-32-5mm
	XTAL4-3225
	TP-TH-20x13mil