$\forall$		DWG NO. PL	203025	SHC REVB
		REVISIONS		
ZONE	RE∨	DESCRIPTION	DATE	APPROVAL
	А	REVISED PER ECN 2406	3/8/10	DB
	В	REVISED PER ECN 2447	3/25/11	KHS

			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCES ARE FRACTIONS   DECIMALS   ANGLES		APPROVALS	DATE			SYSTE	M PLANNING	CORPORATION		
					D BOUDREAU	9/30/09	,	3601 WILSON BOULEVARD * ARLINGTON, VIRGINIA 22201					
		± 1/32	.X ±.1 .XX ±.01	± 1/2*	CHECKER K SPITERY	10/13/09			PC	B ASSEMBL			
		THIF	THIRD ANGLE PROJECTION  SY		DESIGNER R STRAZ	9/30/09	E-SEAL W/ ZIGBEE V2 GLOBALTRAK						
203026	_				SYSTEM ENGINEER R STRAZ 9/30/0		SIZE	4233112111111			REV.		
NEXT ASSY	USED ON				MANUFACTURING B WELLS	9/30/09	A	96,	<u> 490</u>	PL:	2030	<u> </u>	B
APPLICATION			-	•			SCALE	1/1			SHEET	CVR	THZ

PARTS LIST

## SYSTEM PLANNING CORPORATION 1000 WILSON BLVD ARLINGTON, VA 22209

PL - 203025-01 REV REV CAGE NO.: 9G490 LIS

REVISION: B REV DATE: 03/25/11 LIST DATE: 03/25/11

PAGE: 1 OF 4

LIST TITLE:	PCB	ASSEMBLY	. E-SEAL	WITH	ZI GBEE	INTERFACE.	GLOBAL	TRAK

LI	31 IIILL. FU	D ASSEMBLI, E-SEAL WITH ZIGBE	INTERFACE, G	LUDAL TRAK		FAGE. I OF	4
I TEM NO	REQ QTY U/M	REFERENCE DESI GNATORS	CAGE COMPONEN NO. /SUBSTIT	T COMPONENT UTE DESCRIPTIO	MFG ID	MANUFACTURER NAME MANUFACTURER PART NO	SUB ASY
3	0.00 EA		302033	SCHEMATIC, E-SE/ ZIGBEE INTERFACI TRAK		SYSTEM PLANNING CORP. 302033	N
5	1.00 EA		406309-0	1 PCB, E-SEAL WITH ZIGBEE INTERFACI TRAK	190033 E, GLOBAL	SYSTEM PLANNING CORP. 406309-01	N
8	1.00 EA	U1	EM250-RT	R(+BTLD* IC, EM250, WITH B0 SOL, QFN-48, ZI0 802. 15. 4	OOTLOADER EMBER GBEE/ spcdoc	EMBER EM250-RTR(+BTLDR) SPC DOCUMENT 854673	N
9	1.00 EA	BT1	15-4903-	53000 BATTERY, AA, 3.0 MODEL TL-4903, I POL-TABS	5V, 2.4AH TADIRA LITHIUM,W/ spcdoc	TADI RAN 15-4903-53000 SPC DOCUMENT 853357	N
10	1.00 EA	Y1	ABM3B-24	.000MHZ* IC, CRYSTAL, 24. SMD		ABRACON CORPROATION ABM3B-24.000MHZ-D-R60-1WT SPC DOCUMENT 854027	N T
11	0.00 EA	(DNI: J2)	FTSH-105	CONNECTOR, MICRO 10 PIN, FTSH SER PITCH	RLES 05	SAMTEC ELECTRONICS FTSH-105-01-F-DV SPC DOCUMENT 853912	N
12	1.00 EA	J3	PPPC041L		0. 100"	SULLI NS CONNECTORS PPPC041LGBN-RC SPC DOCUMENT 854594	N
13	0.00 EA	(DNI: J1)	102972-2	CONNECTOR-BREAK, SINGLEN ROW, VER POSITION	RTICLE, 2	AMP I NCORPORATED 102972-2 SPC DOCUMENT 850267	N
14	1.00 EA	DS1	LS L29K-	H1J2-1 LED, SURFACE MOU RED, 630NM, 0603	3	OSRAM LS L29K-H1J2-1 SPC DOCUMENT 854644	N
16	1.00 EA	DS2	L0 L29K-	J2L1-24 LED, SURFACE MOU ORANGE, 630NM, (	JNT CHIP, OSRAM 0603	OSRAM LO L29K-J2L1-24	N

PARTS LIST

## SYSTEM PLANNING CORPORATION 1000 WILSON BLVD ARLINGTON, VA 22209

PL - 203025-01 RE ----- RE CAGE NO.: 9G490 LI

REVISION: B REV DATE: 03/25/11 LIST DATE: 03/25/11

PAGE: 2 OF 4

LIST TITLE:	PCB	ASSEMBLY	, E-SEAL	WITH	ZI GBEE	I NTERFACE.	GLOBAL	TRAK

LISI	I IIILE: PCB ASSEMBLY, E-SEA	L WITH ZIGBEE INTE			PAGE: 2 OF	4
I TEM NO F	REQ QTY U/M REFERENCE DESIG	CAGE NATORS NO.	COMPONENT /SUBSTITUTE	COMPONENT DESCRIPTION	MFG ID MANUFACTURER NAME MANUFACTURER PART NO	SUB
					spcdoc SPC DOCUMENT 854645	
19	1.00 EA L3		LQG18HN2N7SOOD	INDUCTOR, 2.7NH, +/-0.3 NH, 300mA, 0603 MULTI- LAYER FILM	MURATA MURATA ERIE LOG18HN2N7SOOD spcdoc SPC DOCUMENT 853851	N
20	1.00 EA L2		LQG18HN3N3SOOD	INDUCTOR, 3.3nH, +/- 0.3 nH, MULTILAYER FILM, 0603	MURATA MURATA ERIE LOG18HN3N3SOOD spcdoc SPC DOCUMENT 851670	N
21	1.00 EA L23		LQP15MN2N0B02	INDUCTOR, 2.0NH, +/-0.1 NH, 220mA, CHIP FILM, 0402	MURATA MURATA ERIE LQP15MN2NOBO2 spcdoc SPC DOCUMENT 853852	N
24	2.00 EA L1, L4		LQP15MN5N1BO2	INDUCTOR, 5.1NH, +/-0.1 NH, 140mA, CHIP FILM, 0402	MURATA MURATA ERIE LQP15MN5N1B02 spcdoc SPC DOCUMENT 853849	N
27	1.00 EA CR1		MMBZ5V6AL-7	DIODE, DUAL SURFACE MT, TVS, 3VOLT, 24WATT, SOT-23	DIODES DIODES, INC.  MMBZ5V6AL-7  SPC DOCUMENT  853364	N
29	1.00 EA FB1		BLM15HG102SN1D	BEAD, FERRITE, FILTER CHIP, 1000 OHM, 250mA, 0402	MURATA MURATA ERIE BLM15HC102SN1D spcdoc SPC DOCUMENT 853860	N
30	1.00 EA CR2		FDLL4148	DIODE, SMALL SIGNA, HI CONDUCTANCE, 100 VOLT, LL-34	FAIRCH FAIRCHILD SEMICONDUCTOR FDLL4148 spcdoc SPC DOCUMENT 853363	N
31	2.00 EA R1, R4		ERJ-2GEJ103X	RESISTOR, CHIP, 10K OHM, 5%, 1/16 WATT, 0402 PACK SMD	PANAS PANASONI C ELECTRONI CS ERJ-2GEJ103X spcdoc SPC DOCUMENT 853853	N
32	1.00 EA R9		ERJ-2GEJ2R7X	RESISTOR, CHIP, 2.7 OHM, 5%, 1/16 WATT, 0402 PACK SMD	PANAS PANASONI C ELECTRONI CS ERJ-2GEJ2R7X spcdoc SPC DOCUMENT	N

PARTS LIST -----

## SYSTEM PLANNING CORPORATION 1000 WILSON BLVD ARLINGTON, VA 22209

PL - 203025-01 CAGE NO.: 9G490

REVISION: B REV DATE: 03/25/11 LIST DATE: 03/25/11

LIST TITLE:	PCB_ASSEMBL	Y.F-SFAL WITH	ZIGBEE INTERFACE	GLOBAL TRAK

LI	ST TITLE: PCB ASSEMBLY, E-SEAL WITH ZIO	GBEE INTERFACE, GLOBAL TRAK		PAGE: 3 OF	4
I TEM NO	REQ QTY U/M REFERENCE DESIGNATORS	CAGE COMPONENT NO. /SUBSTITUTE	COMPONENT DESCRIPTION	MFG ID MANUFACTURER NAME MANUFACTURER PART NO	SUB ASY
				853858	
33	1.00 EA R3	ERJ-3EKF1001V	RESISTOR, 1K OHM, 1/16 WATT, 1%, SMD, 0603,	PANAS PANASONI C ELECTRONI CS ERJ-3EKF101V spcdoc SPC DOCUMENT 851466	N
34	2.00 EA R5, R7	ERJ-2GEJ1ROX	RESISTOR, CHIP, 1 OHM, 5%, 1/16 WATT, 0402 PACK SMD	PANAS PANASONI C ELECTRONI CS ERJ-2GEJ1ROX spcdoc SPC DOCUMENT 853855	N
35	1.00 EA R6	ERJ-2GEJ332X	RESISTOR, CHIP, 3.3K OHM 5%, 1/10 WATT, 0402 PACK SMD		N
36	1.00 EA R2	ERJ2GEJ561X	RESISTOR, 560 OHM, 1/16 WATT, 5%, SMD, 0402 PACK	PANAS PANASONI C ELECTRONI CS ERJ2GEJ561X spcdoc SPC DOCUMENT 854854	N
37	1.00 EA R8	ERJ-2RKF1693X	RESISTOR, CHIP, 169K OHM 1%, 1/16 WATT, 0402 PACK SMD	PANAS PANASONI C ELECTRONI CS ERJ-2RKF1693X spcdoc SPC DOCUMENT 853857	N
38	2.00 EA R10, R11	ERJ-2GEJ102X	RESISTOR, 1.0K OHM, 1/16 WATT, 5%, SMD, 0402 PACK	PANAS PANASONI C ELECTRONI CS ERJ-2GEJ102X spcdoc SPC DOCUMENT 854008	N
39	1.00 EA R12	ERJ-6GEYJ104V	RESISTOR, CHIP, 100K OHM 5%, 1/8 WATT, 0805 PACK, SMD	PANAS PANASONI C ELECTRONI CS ERJ-6GEYJ104V spcdoc SPC DOCUMENT 852916	N
40	3.00 EA C7, C8, C9	GRM155R71C104KA*	CAPACI TOR, 0.1UF, 16V0LT +/- 10%, X7R, 0402	MURATA MURATA ERIE GRM1555R71C104KA88D spcdoc SPC DOCUMENT 853843	N
42	3.00 EA C24, C25, C58	ECJ-0EC1H010C	CAPACITOR, CHIP, 1pF, +/- 0.25pF, 50VOLT, COG, NPO, 0402	PANAS PANASONI C ELECTRONI CS ECJ-OEC1H010C spcdoc SPC DOCUMENT 853848	N

PARTS LIST

## SYSTEM PLANNING CORPORATION 1000 WILSON BLVD ARLINGTON, VA 22209

REVISION: B REV DATE: 03/25/11 LIST DATE: 03/25/11

LIST TITLE: PCB ASSEMBLY, E-SEAL WITH ZIGBEE INTERFACE, GLOBAL TRAF	K PAGE: 4 OF 4

LI	SI IIILE:	PU	3 ASSEMBLY, E-SEAL WITH ZIGB	EE INI				PAGE: 4 UF	4
I TEN NO		U/M	REFERENCE DESI GNATORS	CAGE NO.	COMPONENT /SUBSTI TUTE	COMPONENT DESCRI PTI ON	MFG ID	MANUFACTURER NAME MANUFACTURER PART NO	SUB ASY
43	10.00	EA	C1, C3, C10, C12, C13, C14, C15, C16, C17, C32		GRM155R71E103KA*	CAPACITOR, 10 NF, +/-10% 25 VOLT, X7R, 0402		MURATA ERIE GRM155R71E103KAO1D SPC DOCUMENT 853840	N
45	1.00	EA	C23		GRM1555C1H1R8CZ*	CAPACI TOR, 1.8PF, 50V0LT +/- 0.25PF, COG, X7R, 0402		MURATA ERIE GRM1555C1H1R8CZO1D SPC DOCUMENT 853847	N
46	1.00	EA	C11		GRM1555C1H8RODZ*	CAPACITOR, 8PF, 50VOLT +/- 0.5PF, COG, NPO, 0402		MURATA ERIE GRM1555C1H8RODZO1D SPC DOCUMENT 853844	N
47	2.00	EA	C4, C5		GRM1555C1H270JZ*	CAPACITOR, 27PF, 50VOLT +/- 5%, COG, 0402		MURATA ERIE GRM1555C1H27OJZO1D SPC DOCUMENT 853841	N
49	2.00	EA	C22, C26		GRM1555C1HR75CZ*	CAPACI TOR, 0.75PF, 50V0LT +/- 0.25PF, COG, NPO, 0402		MURATA ERIE GRM1555C1HR75CZO1D SPC DOCUMENT TBD	N
50	1.00	EA	C6		T491A106K010AT	CAPACITOR, TANTALUM, 10uF, +/- 10%, 10 VOLT, 3216 SIZEA		KEMET ELECTRONICS T491A106K010AT SPC DOCUMENT 853842	N
55	0.00	EA			EC-2216GRAY	SCOTCH-WELD EPOXY ADHESIVE, GRAY, 1: 1MIX, 43 MIL	3M spcdoc	3M MANUFACTURING EC-2216GRAY SPC DOCUMENT 855312	N
60	0.00	EA			HUMI SEAL1B73	ACRYLIC CONFORMAL COATING		CHASE SPECIALITY COATING: HUMISEAL1B73 SPC DOCUMENT 855314	S N
61	0.00	EA			862-150ML	SOLDER MASK, PEELABLE	MGCHEM	ALLIED ELECTRONICS, INC. 661-0430 MG CHEMICALS 862-150ML SPC DOCUMENT 853475	N

TOTAL NO PAGES: