

Exhibit J: Bill of Materials
Long Range Systems
T1505 Transmitter

Posey Hospital Bed Transmitter

Finished Goods Part #: **TX-POSEY**

<u>Item</u>	<u>QTY</u>	<u>Part #</u>	<u>Description</u>	<u>MFG.</u>	<u>MFG PN</u>	<u>Notes</u>
1	1	97-0051	Main PCB Assy	Seveco	NA	Connect to Connector board w/ 28 Guage wire or eq
2	1	97-0049	Connector PCB Assy	Seveco	NA	Connect to Main board using 28 guage wire or eq.
3	1	K5-0004	Case Assy	Newtec	NA	
4	4	F1-0069	Screws	Newtec	NA	Pan Head #4 X 1/2" Hi Lo
5	2	J1-0008	Battery Pack	Well Link	MH600AAA2AN	2 x AAA 2.4V 600mAH
6	1	L1-0016	Power Supply 7.5VDC 500mA	?		2.1mm ip 5.5mm X 10mm, 3 Prong Grounded input
7	1	P1-0020	Antenna Cap	LRS		Install on tip of Antenna
8	2	NA	POSEY ID LABEL	LRS		LRS THERMAL PRINTED (FCC and BARCODE ID)

Posey Main board BOM

Sub assy Part number: 97-0051

Item	Quantity	Reference	Part	Alliance#	PKG	TOL	RATING	MFG	MFG_PN	NOTES
1	1	PCB	PC Board	G1-0072			FR4 2 layer			
2	6	C1,C2,C36,C37, C38,C39	1U	01-0047	1206	79.8	25V Y5V			
3	2	C8,C9	1200P	01-0003	603	10%	50V			
4	1	C10	10U	02-0009	4X5.8 (B)	20%	25V			
5	1	C11	2.7P	01-0099	603	5%	50V NPO			
6	2	C12,C22	10N	01-0085	603	10%	16V			
7	1	C14	33P	01-0079	603	5%	50V NPO			
8	1	C16	180P	01-0006	603	5%	50V NPO			
9	2	C19,C17	3.9P	01-0100	603	5%	50V NPO			
10	1	C18	0.68P	01-0104	603	5%	50V NPO			
11	1	C21	12P	01-0004	603	5%	50V NPO			
12	1	C32	0.1U	01-0058	805	10%	16V			
13	3	C27,C28,C29	100U 6.3V	02-0012	6.3X5.8 (D)	20%	6.3V			
14	1	C30	47U	02-0008	7.3X4.3	20%	16V			
15	1	C34	27P	01-0062	603	5%	50V NPO			
16	1	C35	2-6P	07-0004	4.5X3.2		50V	VOLTRONICS	JZ060	
17	3	D2,D3,D4	3A	21-0018	SMC		3A 40V Vf=.43	IRF	30BQ040	
18	1	J6	SIP/10P/Holes	Empty	NO PLACE		28 guage wire or eq.			WIRE TO J18 CONN. PCB
19	2	J9,J13	POWERCLIP	A9-0003	CUSTOM			NEWTEC		Ni PLATED POWER TABS
20	1	J10	HDR-2X5-100	Empty	NO PLACE		Programming pins			POOKY HOLES
21	3	L1,L2,L5	22NH	61-0058	805			COILCRAFT	0805CS-220XJB	TYPE CS
22	1	L3	1UH	61-0023	1008	5%	370MA	COILCRAFT	1008CS-102XJB	TYPE CS
23	1	L4	33NH	61-0030	805	5%		COILCRAFT	0805CS-330XJB	TYPE CS
24	1	L6	220uH	61-00xx	DO3316			COILCRAFT	DO3316P-224	
25	2	Q2,Q5	7002	31-0004	SOT-23		20V MIN	ANY	MMBT7002	
26	1	Q3	IRF7204	31-0007	SO8		20V 5A	IR	IRF7204	
27	1	Q4	4403	31-0002	SOT-23		20V		MMBT4403	
28	1	R312	47K	11-0118	603	5%				
29	2	R5,R6	100K 1%	11-0002	603	1%				
30	4	R7,R8,R18,R27	10K 1%	11-0003	603	1%				
31	2	R9,R23	1K	11-0109	603	5%				
32	1	R14	10	01-0167	2512	5%				
33	2	R30,R17	4.3K	11-0006	603	5%				
34	1	R21	2.2K	11-0115	603	5%				
35	2	R313,R25	3.74K 1%	11-0156	603	1%				
36	2	R311,R314	1.24K 1%	11-0157	603	1%				
37	1	U2	ATMEGA128L-AC8	41-0088	QFP64		2.7 - 5.5V 8MHZ	ATMEL	ATMEGA128L-AC8	8MHZ MAX @ 2.7V
38	1	U3	TH7107	41-0091	SSOP16			MELEXIS	TH7107	
39	1	U4	UPC2771TB	41-0020	SOT363		3V P1 +13dBm	NEC	UPC2771-TB	
40	1	U7	LT1072/SO8	B4-0003	SO8		1.25A 3-60V	LINEAR TECH.	LT1072CS8	
41	1	U11	NJU7221/3.2	B3-0004	SOT-89	2%	100MA	NJR	NJU7221/3.2	
42	1	Y1	3.6864MHZ	51-0042	HC49 SMT	50PPM	20 TO 50PF LOAD			MICROPROCESSOR XTAL
43	1	Y2	32.768KHZ	51-0034	X801 CYCL.	20PPM	-20C +80C 18PF LOAD			TUNNING FORK TYPE

44	1	Y3	14.617188Mhz	51-0002	HC49S	10PPM	Tc 10PPM 20PF LOAD	SHOULDER		SEE SPEC.
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Posey Case BOM

LRS Part Number: K5-0004

<u>Item</u>	<u>QTY</u>	<u>Part #</u>	<u>Description</u>	<u>MFG.</u>	<u>MFG PN</u>	<u>Notes</u>
1	1	K1-0055	Case Top	Newtec		
2	1	K1-0056	Case Bottom	Newtec		
3	1	K1-0057	Case Lense	Newtec		
4	1	86-0004	Button and Pad	Newtec		

Posey Connector board BOM

Sub assy Part number: **97-0049**

Item	QTY	Reference	Part	Alliance#	PKG	TOL	RATING	MFG	MFG_PN	NOTES
1	1	PCB	PC board	G1-0073						
2	4	C23,C24, C25,C26,	0.1U	01-0058	805	10%	16V			
3	1	D1	SMD LED BLUE-GRN	D1-0009	603		1000mCD MIN.	Stanley	DC1113F	0805 ON PCB
4	1	J14	6 Pin mini DIN RA	A8-0011	6PIN DIN JACK			SC PRECISION	SCN551S6GTTB000	
5	1	J15	1/4" Mono Jack Female	A8-0001	6.35MM			SC PRECISION	SCJ630P50CS1BK0	
6	1	J16	1/4" Mono Jack Male	A8-0023	n/a			DGS (Mouser)	17PP107	BEND TABS TO FIT
7	1	J17	2.5mm RA Power Jack	A8-0020	2.5MM PWR JACK			SC PRECISION	SCD441CCS03300	
8	1	J18	SIP/10P/Male	n/a	wires to main board.					TO J6 MAIN PCB
9	1	R1	1.02M 1%	11-0154	603	1%				
10		R4	47K	11-0118	603	5%				
11	1	R22	1K	11-0109	603	5%				
12	1	R10	470	11-0082	603	5%				
13	1	U5	MAX232A/SO	41-0041	SOIC16/.244			VARIOUS	MAX232	
14	1	AN1	BRACKET T2-500	F1-0002	THREAD 4-40			SEVECO	F1-0002	MFG FOR LRS
15	1	ANTENNA		I2-0004	CUSTOM MADE			SEVECO	I2-0004	MFG FOR LRS