

<i>Part</i>	<i>Rev</i>	<i>Qty</i>	<i>Description</i>	<i>Reference Designators</i>	<i>Part Type</i>
805-0073		10	Wire Teflon Hook-up,26awg orange Beldon	47	
805-0074		10	Wire Teflon Hook-up,26awg yellow Beldon	48	
805-0075		10	Wire Teflon Hook-up,26awg green Beldon	49	
805-0076		10	Wire Teflon Hook-up,26awg violet Beldon	50	
805-0077		50	Wire Teflon Hook-up,26awg white Beldon		
805-0078		10	Wire Teflon Hook-up,24 awg red Beldon	52	
805-0079		10	Wire Teflon Hook-up,24 awg orange Beldon	53	
805-0080		10	Wire Teflon Hook-up,24 awg white Beldon	54	
805-0083		10	Wire Teflon Hook-up,22 awg orange Beldon	55	
805-0085		10	Wire Teflon Hook-up,22 awg violet Beldon	56	
805-0086		10	Wire Teflon Hook-up,22 awg white Beldon	57	
805-0087		10	Wire Teflon Hook-up,22 awg black Beldon	58	
820-0041		1	Vector Subrack Front Panel Mounting Kit, Two large double-d sleeves	15	
850-0122		1	FABRICATION, HOUSING, CHNL MODULE, 3 Pocket	11	Custom
850-0123		1	FABRICATION, COVER, I/O PARTITION, 3 Pocket	12	Custom
850-0124		1	FABRICATION, COVER, SYNT CAVITY, 3 Pocket	13	Custom
850-0135		1	FAB,FRONT PANEL,TCC		Custom
880-0003		5	Cable Tie, 4", Black Nylon, Non-Comp	33	
885-0005		2	Fastener, Cable Tie Mounting Base,4 way 3/4" square, Non-Comp	32	
900-0032		2	Screw, Machine, Phillips, Panhead, 2-56 x 3/16", Non-Comp	35	
900-0037		2	Screw, Machine, Phillips, Panhead, 2-56 x 1/2", Non-Comp		
900-0075		24	Screw, Machine, SEMS, Phillips, Panhead,4-40x3/16", Non-Comp		
900-0076		6	Screw, Machine, Phillips, Panhead,18-8 SS,4-40 x 3/4", Non-Comp		
900-0191		1	TERMINAL LOCKWASHER LUG #8 ANGLE, Internal Tooth	30	
900-0207		22	Zinc-Plated Steel Pan Head, 2-56 Thread, 1/4", SEMS, Internal Washer		
925-0023		24	Washer, 4-40 Lock, Non-Comp	40	

<i>Part</i>	<i>Rev</i>	<i>Qty</i>	<i>Description</i>	<i>Reference Designators</i>	<i>Part Type</i>
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End of BOM

BOM Single Level *(With Phantom Blow-Through)*

285-0255

TCC, 3U PI, 155-159 MHz, <120uS, ChSys,
G1, Mid Band, VHF

Rev 3

Last Update 3/23/2009

Part	Rev	Qty	Description	Reference Designators	Part Type
285-0255-ASY		0	TCC, 3U PI, 151-154 MHz, <120uS, ChSys, G1, Mid Band, VHF		
285-0255-SCH		0			
285-0255-SPI		0	TCC, 3U PI, 151-154 MHz, <120uS, ChSys, G1, Mid Band, VHF		
305-0187		1	PCBA, VHF Input, Mid Band, ChSys	A1	
305-0190		1	PCBA, 3P Switched Output, VHF, Mid Band	A2	
305-0192		1	PCBA, VHF Synthesizer, ChSys	A3	
310-0170	B	1	Controller Backplane Card, ChSys, G1,G2, 800MHz, UHF, VHF, (Smartcard)	10	
375-0018		2	LED, T-5mm (T-1 3/4), Right Angle, Green Diffused, 565nm, SSF- LXH100GD	DS1,DS2	
546-0042-L03		1	RFCable,SMA-f-BH_to_SMA-m- RA,RG405,.085",Semiflex,3",Non- Comp	W3	
546-0043-L12		1	RFCable,SMA-f-BH_to_SMA-m- RA,RG405,.085",Semirigid, 12", L- Sys,RoHS	W1	
546-0075-L04		2	RFCable,SMA-f-BH- 2HoleMt_to_NoConn,RG405,.085", Semiflex,L-Sys,4"	24	
585-0029		1	SMA-Recept, Ext Diel	23	
610-0028		1	Conn, Header, MTA100, Friction Lock, Notched, 15 pos., 0.100 pitch.	J1	
615-0014		10	RF Coax Tin Plated Cable EZ-Flex 47, EZ Formable .047(50ohm)	29	
705-0142		16	Cap, Feed-Thru, 1000pf, ±20%, 10A Max, 8-32 Thread 705-0144 valid Sub	C1-C2, C5-C7, C12, C14-C23	
705-0145		7	Cap, Feed-Thru, 100pf, 10A Max, 8- 32 Thread	C3-C4, C8-C11, C13	
725-1507		2	RES 510 OHM 1/2W 5% 2010 SMD, Cut Tape, RoHS	R1-R2	
765-0191		1	15 Pos wire harness, 22 AWG, for G2 TCC, Bds UHF, VHF 3 Pocket Housing		
775-0025		1	CONN DB-9 F RECPT R/A PCB AU Tyco PN 5747844-4	J3	
775-0026		1	D-Sub Accessories FEMALE SCREWLOCK KIT	31	
805-0071		10	Wire Teflon Hook-up,26awg Brown Beldon		

<i>Part</i>	<i>Rev</i>	<i>Qty</i>	<i>Description</i>	<i>Reference Designators</i>	<i>Part Type</i>
805-0073		10	Wire Teflon Hook-up,26awg orange Beldon	47	
805-0074		10	Wire Teflon Hook-up,26awg yellow Beldon	48	
805-0075		10	Wire Teflon Hook-up,26awg green Beldon	49	
805-0076		10	Wire Teflon Hook-up,26awg violet Beldon	50	
805-0078		10	Wire Teflon Hook-up,24 awg red Beldon	52	
805-0079		10	Wire Teflon Hook-up,24 awg orange Beldon	53	
805-0080		10	Wire Teflon Hook-up,24 awg white Beldon	54	
805-0083		10	Wire Teflon Hook-up,22 awg orange Beldon	55	
805-0085		10	Wire Teflon Hook-up,22 awg violet Beldon	56	
805-0086		10	Wire Teflon Hook-up,22 awg white Beldon	57	
805-0087		10	Wire Teflon Hook-up,22 awg black Beldon	58	
820-0041		1	Vector Subrack Front Panel Mounting Kit, Two large double-d sleeves	15	
850-0122		1	FABRICATION, HOUSING, CHNL MODULE, 3 Pocket	11	Custom
850-0123		1	FABRICATION, COVER, I/O PARTITION, 3 Pocket	12	Custom
850-0124		1	FABRICATION, COVER, SYNT CAVITY, 3 Pocket	13	Custom
850-0135		1	FAB,FRONT PANEL,TCC		Custom
880-0003		5	Cable Tie, 4", Black Nylon, Non-Comp	33	
885-0005		2	Fastener, Cable Tie Mounting Base,4 way 3/4" square, Non-Comp	32	
900-0032		2	Screw, Machine, Phillips, Panhead, 2-56 x 3/16", Non-Comp	35	
900-0037		2	Screw, Machine, Phillips, Panhead, 2-56 x 1/2", Non-Comp		
900-0075		24	Screw, Machine, SEMS, Phillips, Panhead,4-40x3/16", Non-Comp		
900-0076		2	Screw, Machine, Phillips, Panhead,18-8 SS,4-40 x 3/4", Non-Comp		
900-0191		1	TERMINAL LOCKWASHER LUG #8 ANGLE, Internal Tooth	30	
900-0207		22	Zinc-Plated Steel Pan Head, 2-56 Thread, 1/4", SEMS, Internal Washer		
925-0023		24	Washer, 4-40 Lock, Non-Comp	40	

End of BOM

BOM Single Level *(With Phantom Blow-Through)*

285-0256

TCC, 3U PI, 160-161 MHz, <120uS, ChSys,
G1, High Band, VHF

Rev 3

Last Update 3/23/2009

Part	Rev	Qty	Description	Reference Designators	Part Type
285-0256-ASY		0	TCC, 3U PI, 151-154 MHz, <120uS, ChSys, G1, High Band, VHF		
285-0256-SCH		0			
285-0256-SPI		0	TCC, 3U PI, 151-154 MHz, <120uS, ChSys, G1, High Band, VHF		
305-0188		1	PCBA, VHF Input, High Band, ChSys	A1	
305-0191		1	PCBA, 3P Switched Output, VHF, High Band	A2	
305-0192		1	PCBA, VHF Synthesizer, ChSys	A3	
310-0170	B	1	Controller Backplane Card, ChSys, G1,G2, 800MHz, UHF, VHF, (Smartcard)	10	
375-0018		2	LED, T-5mm (T-1 3/4), Right Angle, Green Diffused, 565nm, SSF- LXH100GD	DS1,DS2	
546-0042-L03		1	RFCable,SMA-f-BH_to_SMA-m- RA,RG405,.085",Semiflex,3",Non- Comp	W3	
546-0043-L12		1	RFCable,SMA-f-BH_to_SMA-m- RA,RG405,.085",Semirigid, 12", L- Sys,RoHS	W1	
546-0075-L04		2	RFCable,SMA-f-BH- 2HoleMt_to_NoConn,RG405,.085", Semiflex,L-Sys,4"	24	
585-0029		1	SMA-Recept, Ext Diel	23	
610-0028		1	Conn, Header, MTA100, Friction Lock, Notched, 15 pos., 0.100 pitch.	J1	
615-0014		10	RF Coax Tin Plated Cable EZ-Flex 47, EZ Formable .047(50ohm)	29	
705-0142		16	Cap, Feed-Thru, 1000pf, ±20%, 10A Max, 8-32 Thread 705-0144 valid Sub	C1-C2, C5-C7, C12, C14-C23	
705-0145		7	Cap, Feed-Thru, 100pf, 10A Max, 8- 32 Thread	C3-C4, C8-C11, C13	
725-1507		2	RES 510 OHM 1/2W 5% 2010 SMD, Cut Tape, RoHS	R1-R2	
765-0191		1	15 Pos wire harness, 22 AWG, for G2 TCC, Bds UHF, VHF 3 Pocket Housing		
775-0025		1	CONN DB-9 F RECPT R/A PCB AU Tyco PN 5747844-4	J3	
775-0026		1	D-Sub Accessories FEMALE SCREWLOCK KIT	31	
805-0071		10	Wire Teflon Hook-up,26awg Brown Beldon		

<i>Part</i>	<i>Rev</i>	<i>Qty</i>	<i>Description</i>	<i>Reference Designators</i>	<i>Part Type</i>
805-0073		10	Wire Teflon Hook-up,26awg orange Beldon	47	
805-0074		10	Wire Teflon Hook-up,26awg yellow Beldon	48	
805-0075		10	Wire Teflon Hook-up,26awg green Beldon	49	
805-0076		10	Wire Teflon Hook-up,26awg violet Beldon	50	
805-0077		50	Wire Teflon Hook-up,26awg white Beldon		
805-0078		10	Wire Teflon Hook-up,24 awg red Beldon	52	
805-0079		10	Wire Teflon Hook-up,24 awg orange Beldon	53	
805-0080		10	Wire Teflon Hook-up,24 awg white Beldon	54	
805-0083		10	Wire Teflon Hook-up,22 awg orange Beldon	55	
805-0085		10	Wire Teflon Hook-up,22 awg violet Beldon	56	
805-0086		10	Wire Teflon Hook-up,22 awg white Beldon	57	
805-0087		10	Wire Teflon Hook-up,22 awg black Beldon	58	
820-0041		1	Vector Subrack Front Panel Mounting Kit, Two large double-d sleeves	15	
850-0122		1	FABRICATION, HOUSING, CHNL MODULE, 3 Pocket	11	Custom
850-0123		1	FABRICATION, COVER, I/O PARTITION, 3 Pocket	12	Custom
850-0124		1	FABRICATION, COVER, SYNT CAVITY, 3 Pocket	13	Custom
850-0135		1	FAB,FRONT PANEL,TCC		Custom
880-0003		5	Cable Tie, 4", Black Nylon, Non-Comp	33	
885-0005		2	Fastener, Cable Tie Mounting Base,4 way 3/4" square, Non-Comp	32	
900-0032		2	Screw, Machine, Phillips, Panhead, 2-56 x 3/16", Non-Comp	35	
900-0033		28	Screw, Machine, Phillips, Panhead, 2-56 x 1/4", 18-8 SS	36	
900-0037		2	Screw, Machine, Phillips, Panhead, 2-56 x 1/2", Non-Comp		
900-0075		24	Screw, Machine, SEMS, Phillips, Panhead,4-40x3/16", Non-Comp		
900-0076		60	Screw, Machine, Phillips, Panhead,18-8 SS,4-40 x 3/4", Non-Comp		
900-0136		4	Screw, 4-40 x 1/4 FH 100 DEG, Non-Comp	38	
900-0191		1	TERMINAL LOCKWASHER LUG #8 ANGLE, Internal Tooth	30	

<i>Part</i>	<i>Rev</i>	<i>Qty</i>	<i>Description</i>	<i>Reference Designators</i>	<i>Part Type</i>
900-0207		22	Zinc-Plated Steel Pan Head, 2-56 Thread, 1/4", SEMS, Internal Washer		
925-0023		24	Washer, 4-40 Lock, Non-Comp	40	

End of BOM

PARTS LIST

9/22/2008 3:04 PM

Fiber-Span 111 Corporate Blvd South Plainfield, NJ 07080 908-754-0647		MODEL / PRODUCT:	NEXT ASSY:	ASSY TITLE:	PART LIST / ASSY NO.:					
				TCC INPUT BOARD, VHF LB	305-0186-BOM					
		PROGRAM MANAGER:	CHARGE #:	NOTES:						
		ISSUED BY:	DATE:							
		APPROVED BY:	DATE:							
		REV:	DATE:							
FILE: 305-0186-BOM	ECN #:	EFFECTIVE DATE:								
ER #:										
ITEM	REF DES	Fiber-Span P/N	MFR P/N	DESCRIPTION	QTY	VALUE	PREF	P/L	MFR	
1		305-0186-ASY		ASSEMBLY DRAWING	REF					
2		305-0186-SCH		SCHEMATIC	REF					
3		310-0191		PRINTED CIRCUIT BOARD	1					
4										
5	AT1		AT-220	IC,ATTENUATOR,DIGITAL,4 - BIT	1				MACOM	
6										
7	C1,C5,C8,C12		ECJ-1VC1H101J	CAP,CHIP,NPO,50V,0603	4	100pF			PANASONIC	
8	C2,C6-7,C10, C13-15,C17-18		ECJ-1VC1H1-2J	CAP,CHIP,NPO,50V,0603	9	1000pF			PANASONIC	
9	C3-4,C21-22		ECJ-1VB1E104K	CAP,CHIP,X7R,25V,0603	4	0.1uF			PANASONIC	
10	C19		C1206C474K5RAC	CAP,CHIP,X7R,50V,1206	1	0.47uF			KEMET	
11	C20		T494D226K016AS	CAP,TANTALUM,LOW ESR,16V	1	22uF			KEMET	
12	CR1		B340LA	DIODE,SCHOTTKY,40V,3Amp	1				DIODE INC	
13	FL1	515-0044	TT6821B-150M	HELICAL FILTER,3 SECT,7mm	1	150-BW4			TEMWEL	
14	FL2,FL5		LFCN-120	FILTER,CHIP,LOW PASS,120MHz	2				MINI-CKT	
15	FL3,FL4	665-0030	MF90RB3	FILTER,CHIP,LOW PASS,120MHz	2				MINI-CKT	
16	L1-3	700-0066	90-08	IND,CHOKE w/FERRITE BEAD	3	0.39uHy			COILCRAFT	
17	R1		30BJ250-10	RES,CARB COMP,1/4W,5%,w/2BD	1	10			XICON	

PARTS LIST

9/22/2008 3:04 PM

<i>Fiber-Span</i>				ASSY TITLE:	PART LIST NO.: 305-0186-BOM				
				TCC INPUT BOARD, VHF LB	REV:	A			
ITEM	REF DES	Fiber-Span P/N	MFR P/N	DESCRIPTION	QTY	VALUE	PREF	P/L	MFR
18	R2,R4		ERJ-3GEYJ103	RES,CHIP,1/10W,5%,0603	2	10K			PANASONIC
19	R3		30BJ250-10	RES,CARB COMP,1/4W,5%,w/1BD	1	10			XICON
20	R5		767-163-R10K	RES,NETWORK,SO-16	1	10K			CTS
21	R6		ERJ-1TNF137U	RES,CHIP,1/W,1%,2512	1	137			PANASONIC
22	R11		ERJ-3GEYJ680	RES,CHIP,1/10W,5%,0603	1	68			PANASONIC
23	R12 R16		ERJ-8GEYJ271	RES,CHIP,1/4W,5%,1206	2	270			PANASONIC
24	U1		SN74HC04D	IC,HEX INVERTER	1				TI
25	U2		SGA-3586	IC,MMIC AMPLIFIER	1				SIRENZA
26	U3-4		SGA-2486	IC,MMIC AMPLIFIER	2				SIRENZA
27	U5		LM2940S-8.0	IC,VOLT REG,LDO,+8V,1A,T0-263	1				NATIONAL
28	U6		ZSR500G	IC,VOLTAGE REG,+5V	1				ZETEX
29	Z1	640-0042	HMJ5	IC,FET MIXER	1				WJ
30			56-590-65/3BC	FERRITE BEAD	6				ELNA
31			1422AS-30B	WIRE, #30 AWG WIRE-WRAP, BLUE	A/R				ADVANCE
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									

PARTS LIST

9/22/2008 3:19 PM

Fiber-Span 111 Corporate Blvd South Plainfield, NJ 07080 908-754-0647		MODEL / PRODUCT:	NEXT ASSY:	ASSY TITLE:	PART LIST / ASSY NO.:					
		PROGRAM MANAGER:	CHARGE #:	NOTES: 1. PARTS VARY DEPENDING ON ASSEMBLY. REFER TO -# TABLES AND ASSEMBLY DRAWING FOR PARTS USED.						
		ISSUED BY:	DATE:							
		APPROVED BY:	DATE:							
		REV:	DATE:							
FILE: 305-0187-BOM		ECN #:	EFFECTIVE DATE:							
ER #:										
ITEM	REF DES	Fiber-Span P/N	MFR P/N	DESCRIPTION	QTY	VALUE	PREF	P/L	MFR	
1		305-0186-ASY		ASSEMBLY DRAWING	REF					
2		305-0186-SCH		SCHEMATIC	REF					
3		310-0191		PRINTED CIRCUIT BOARD	1					
4										
5	AT1		AT-220	IC,ATTENUATOR,DIGITAL,4 - BIT	1				MACOM	
6										
7	C1,C5,C8,C12		ECJ-1VC1H101J	CAP,CHIP,NPO,50V,0603	4	100pF			PANASONIC	
8	C2,C6-7,C10, C13-15,C17-18		ECJ-1VC1H1-2J	CAP,CHIP,NPO,50V,0603	9	1000pF			PANASONIC	
9	C3-4,C21-22		ECJ-1VB1E104K	CAP,CHIP,X7R,25V,0603	4	0.1uF			PANASONIC	
10	C19		C1206C474K5RAC	CAP,CHIP,X7R,50V,1206	1	0.47uF			KEMET	
11	C20		T494D226K016AS	CAP,TANTALUM,LOW ESR,16V	1	22uF			KEMET	
12	CR1		B340LA	DIODE,SCHOTTKY,40V,3Amp	1				DIODE INC	
13	FL1	515-0042	TT6814B-157	HELICAL FILTER,3 SECT,7mm	1	157-BW4			TEMWEL	
14	FL2,FL5		LFCN-120	FILTER,CHIP,LOW PASS,120MHz	2				MINI-CKT	
15	FL3,FL4	665-0030	MF90RB3	FILTER,CHIP,LOW PASS,120MHz	2				MINI-CKT	
16	L1-3	700-0066	90-08	IND,CHOKE w/FERRITE BEAD	3	0.39uHy			COILCRAFT	
17	R1		30BJ250-10	RES,CARB COMP,1/4W,5%,w/2BD	1	10			XICON	