

Bill Of Materials January 9,2004 9:16:27
Part list 93-113891

Reference	Value	Description
BT2201	Not used	
BT2202	3V LITHIUM	
C1001	1n	
C1002	22p	
C1003	100p	
C1004	1n	
C1005	100p	
C1006	10n	
C1007	100p	
C1008	22p	
C1009	10n	
C1010	100p	
C1011	100p	
C1012	10n	
C1013	100p	
C1014	100p	
C1016	100p	
C1018	100p	
C1019	100p	
C1020	100p	
C1021	0p8	
C1022	not used	
C1023	1n	
C1101	100n	
C1102	100n	
C1103	1n	
C1104	100n	
C1105	100p	
C1106	100p	
C1107	100p	
C1108	10n	
C1109	100p	
C1110	100n	
C1111	100p	
C1112	1n	
C1113	100n	
C1114	22p	
C1117	1u	
C1118	100n	
C1119	Not used	
C1120	100n	
C1121	100n	
C1201	100n	
C1205	10n	
C1206	100n	
C1209	10n	
C1210	1n2	
C1211	1n8	
C1212	1n2	
C1213	100n	
C1214	100n	

C1215	100n
C1216	100n
C1217	100n
C1218	100n
C1219	100n
C1221	100n
C1222	100u
C1301	10n
C1302	1n5
C1303	10n
C1304	1n
C1305	1n
C1306	2p7
C1307	100n
C1308	100n
C1309	100n
C1310	100n
C1311	4p7
C1312	5p6
C1313	6p8
C1314	100n
C1315	82p
C1401	10n
C1402	4u7
C1403	100n
C1404	5p6
C1405	100n
C1406	3p9
C1407	2n2
C1408	1n
C1409	22n
C1410	1n
C1411	15p
C1412	1n
C1413	1n
C1414	100u
C1415	4u7
C1416	4u7
C1417	100n
C1418	1n
C1419	1n
C1420	1n
C1421	2p7
C1423	22p
C1424	15p
C1425	22p
C1426	100n
C1427	100n
C1428	220p
C1429	10p
C1430	1n
C1431	12p
C1432	12p
C1433	15p
C1434	15p
C1435	100n

C1436	1n
C1438	1n
C1439	6p8
C1440	1n
C1441	22p
C1442	12p
C1443	100u
C1444	1n
C1445	100n
C1501	100n
C1505	10n
C1506	100n
C1509	10n
C1513	100n
C1514	100n
C1515	100n
C1516	100n
C1517	1n
C1518	100n
C1519	330u
C1520	100n
C1521	100n
C1601	10n
C1602	1n5
C1603	10n
C1604	100n
C1605	1n
C1606	1n
C1607	2p7
C1608	100n
C1609	100n
C1610	100n
C1611	100n
C1612	4p7
C1613	5p6
C1614	6p8
C1615	100n
C1616	82p
C1617	6p8
C1618	2n2
C1701	1n
C1702	10n
C1703	10n
C1704	10u
C1705	1n
C1706	100n
C1707	100n
C1708	100p
C1709	100u
C1710	100n
C1711	100p
C1712	100p
C1713	1n
C1714	6n8
C1715	470p
C1716	68n

C1718	100p
C1721	10n
C1722	100p
C1723	100p
C1724	100p
C1725	10p
C1726	10p
C1728	10n
C1729	100p
C1730	100p
C1731	10p
C1732	10p
C1733	12p
C1734	12p
C1801	100p
C1802	10n
C1803	100n
C1804	22p
C1805	22p
C1810	22p
C1811	22p
C1812	1n
C1813	10p
C1814	22p
C1815	22p
C1901	470n
C1902	100u
C1903	470n
C1904	12p
C1905	22p
C1906	100n
C1907	12p
C1908	100u
C1909	10u
C1910	100n
C1911	100n
C1913	100n
C1914	Not used
C1916	Not used
C1917	100n
C1918	100n
C1919	10u
C1921	12p
C1922	12p
C1923	100n
C1924	Not used
C1925	Not used
C1926	100n
C1927	100n
C2001	470n
C2002	100n
C2003	100u
C2007	100u
C2008	100n
C2009	100n
C201	100p

C2010	100u
C2011	100n
C2012	100u
C2013	10n
C2014	22n
C2015	100u
C2016	100u
C202	100p
C2020	100n
C2021	100u
C2022	100n
C2023	100u
C203	100p
C204	22p
C205	22p
C206	100p
C207	10n
C208	100n
C209	100p
C210	10n
C2101	220n
C2102	10u
C2103	220n
C2104	10u
C2105	1u
C2106	1u
C212	3p3
C216	100p
C217	10n
C2201	100n
C2202	100n
C2203	100n
C2204	100n
C2205	100n
C2206	100n
C2207	100n
C2208	100n
C2209	100n
C221	1p2
C2210	100n
C2211	100n
C2212	100n
C2213	15p
C2214	100n
C2215	2n7
C2216	Not used
C2217	Not used
C2218	100n
C2219	1u
C222	1n
C2220	10n
C2221	1u
C2222	100n
C2223	100n
C223	100n
C224	1n

C225	10n
C226	10n
C228	10p
C229	6p8
C230	4p7
C2301	10n
C2302	10u
C2303	100n
C2304	10u
C2305	100n
C231	10n
C232	100n
C233	12p
C234	22p
C235	100p
C236	22p
C237	10n
C238	100p
C239	1p2
C2401	100n
C2403	100n
C2404	100n
C2405	100n
C2406	100n
C2407	100n
C2408	100n
C2409	100n
C2410	100n
C2411	100n
C2412	100n
C2413	100n
C2414	100n
C2415	100n
C244	Not used
C245	4p7
C246	Not used
C247	Not used
C248	Not used
C249	22p
C250	22p
C2501	100n
C2502	100n
C2503	100n
C2504	10n
C2505	10n
C2506	100n
C251	22p
C252	Not used
C2601	100n
C2602	100n
C2603	100n
C2604	100n
C2605	100n
C2606	100n
C2607	100n
C2701	100n

C2702	100n
C2801	100n
C2802	100n
C2803	100n
C2804	100n
C2805	100n
C2806	100n
C2807	100n
C2808	100n
C2809	100n
C2810	100n
C2811	100n
C2812	100n
C2813	100n
C2814	100n
C2815	100n
C2816	100n
C2817	100n
C2818	100n
C2819	100n
C2820	100n
C2821	100n
C2822	100n
C2823	100n
C2824	100n
C2825	100n
C2826	100n
C2827	100n
C2828	100p
C2829	100p
C2830	100u
C2831	100n
C2832	100p
C2901	10n
C2902	10n
C2903	10n
C2904	10n
C2905	10n
C2906	100n
C2907	100n
C2908	100n
C2909	10n
C2910	10n
C2911	10n
C2912	10n
C2913	10n
C2914	10n
C2915	10n
C2916	10n
C2917	10n
C2918	10n
C2919	10n
C2920	100p
C2921	100p
C2922	100n
C2923	100n

C2924	100n
C2925	100n
C2926	100n
C2927	100n
C2928	100n
C3001	100n
C3002	100n
C3003	100n
C3004	100n
C3005	100n
C3006	100n
C3007	100n
C3008	100n
C3009	100n
C301	1n
C3010	100n
C3011	100n
C3012	100n
C3013	470n
C3014	470n
C3015	100n
C3016	100n
C3017	100n
C3018	100n
C302	470n
C303	100n
C304	1n
C305	4u7
C306	100n
C307	1n
C308	47p
C309	100n
C310	1n
C3101	100n
C3102	100n
C3103	100n
C3104	100n
C3105	100n
C3106	100n
C3107	100n
C3108	100n
C3109	100n
C311	1n
C312	100n
C313	47p
C315	100n
C316	2u2
C317	470n
C318	2u2
C319	470n
C320	100n
C3201	10p
C3202	10p
C3203	220p
C3204	100n
C3205	100n

C3206	100n
C3207	100n
C3208	100n
C3209	100n
C321	1n
C322	470n
C323	2u2
C324	470n
C3301	10p
C3302	10p
C3303	220p
C3304	100n
C3305	100n
C3351	10p
C3352	10p
C3353	220p
C3401	10p
C3402	10p
C3403	220p
C3501	10p
C3502	10p
C3503	220p
C3504	100n
C3505	100n
C3506	100n
C3507	100n
C3508	100n
C3509	100n
C3551	10p
C3552	10p
C3553	220p
C3601	10p
C3602	10p
C3603	220p
C3604	10p
C3605	10p
C3606	220p
C3702	100n
C3703	470p
C3704	470p
C3705	47p
C3706	56p
C3707	47p
C3708	56p
C3709	470p
C3710	47p
C3711	47p
C3712	470p
C3713	56p
C3714	56p
C3715	47p
C3716	47p
C3717	470p
C3718	470p
C3719	56p
C3720	56p

C3721	10n
C3722	100n
C3723	100n
C3724	100n
C3725	10n
C3726	470p
C3727	56p
C3728	470p
C3729	56p
C3730	47p
C3731	47p
C3801	100n
C3802	2n2
C3803	1n
C3804	22n
C3805	18n
C3806	18n
C3807	10u
C3808	100n
C3809	470p
C3810	470p
C3811	470n
C3812	470n
C3813	100n
C3901	100n
C3902	100n
C3903	100n
C3904	100n
C3905	100n
C3906	100n
C3907	100n
C3908	100n
C3909	100n
C3910	100n
C3911	100n
C3912	100n
C3913	100n
C3914	100n
C4001	100n
C4002	100n
C4003	100n
C4004	100n
C4005	100n
C4006	100n
C401	100n
C405	10n
C406	100n
C409	10n
C410	1n2
C4101	470n
C4102	100n
C4103	470n
C4104	100n
C4105	470n
C4106	470n
C4107	330n

C4108	470n
C4109	470n
C411	1n8
C4110	100n
C4111	470n
C4112	470n
C4113	330n
C4114	470n
C4115	100n
C4116	10n
C4117	10n
C4118	10n
C4119	10n
C412	1n2
C413	100n
C414	100n
C415	100n
C416	100n
C417	100n
C418	100n
C419	100n
C420	22p
C4201	120p
C4202	100n
C4203	100n
C4204	100n
C4205	120p
C4206	100n
C4207	100n
C4208	2n2
C4209	100n
C421	100u
C4211	1n
C4212	22n
C4213	470n
C4214	22n
C4215	1n
C4216	470n
C4217	1n
C4218	1n
C422	22p
C4301	120p
C4302	100n
C4303	100n
C4304	120p
C4305	1n
C4306	22n
C4307	470n
C4308	22n
C4309	1n
C4310	1n
C4311	1n
C4401	120p
C4402	100n
C4403	100n
C4404	120p

C4405	1n
C4406	22n
C4407	470n
C4408	22n
C4409	1n
C4410	1n
C4411	1n
C4501	120p
C4502	100n
C4503	100n
C4504	120p
C4505	1n
C4506	22n
C4507	470n
C4508	22n
C4509	1n
C4510	1n
C4511	1n
C4601	120p
C4602	100n
C4603	100n
C4604	120p
C4605	100n
C4606	1n
C4607	22n
C4608	470n
C4609	22n
C4610	150p
C4701	100n
C4702	100n
C4703	100n
C4704	100n
C4705	10n
C4706	100n
C4707	100n
C4708	10n
C4709	10u
C4710	100n
C4711	100n
C4712	10u
C4713	100n
C4714	100n
C4801	100n
C4802	100n
C4803	100n
C4804	100n
C4805	100n
C4806	100n
C4807	100n
C4808	100n
C4809	100n
C4810	100n
C4901	100n
C4902	100n
C4903	100n
C4904	100u

C4905	100n
C4906	100p
C4907	100n
C4908	100n
C4909	100n
C501	10n
C502	1n5
C503	10n
C504	1n
C505	1n
C506	2p7
C507	100n
C508	100n
C509	100n
C510	100n
C511	4p7
C512	5p6
C513	10p
C514	100n
C515	82p
C516	6p8
C517	2n2
C518	Not used
C601	1n
C602	10n
C603	10n
C604	10u
C605	1n
C606	100n
C607	100n
C608	100p
C609	100u
C610	100n
C611	100p
C612	100p
C613	1n
C614	2n7
C615	220p
C616	68n
C618	100p
C623	100p
C624	100p
C627	10n
C629	100p
C630	100p
C631	100p
C632	12p
C633	12p
C634	12p
C635	12p
C636	12p
C637	12p
C638	100p
C639	100p
C640	10n
C641	100p

C642	100p
C701	10n
C702	1n5
C703	10n
C704	100n
C705	100n
C706	100n
C707	10n
C708	4u7
C709	100n
C710	100n
C711	100n
C712	100n
C713	470n
C714	100n
C715	10n
C716	1n5
C717	100n
C718	1n5
C719	100n
C720	470n
C721	100n
C722	220p
C723	470n
C724	1n
C725	220p
C726	100n
C727	100n
C801	10n
C802	4u7
C803	100n
C804	100n
C806	1n
C807	10n
C808	1n
C809	10n
C810	22p
C811	22p
C812	33p
C813	100u
C814	1n
C815	10n
C816	22p
C817	33p
C818	56p
C819	1n
C820	27p
C821	33p
C822	22n
C823	1n2
C824	1n
C825	1u
C826	47p
C827	1n
C828	100n
C901	1n

C902	100n	
C903	100n	
C904	100p	
C905	1n5	
C906	100u	
C907	100n	
C908	1n	
C909	1n	
C910	10n	
C911	1n	
C912	100n	
C913	100p	
C914	470p	
C915	22p	
C918	100p	
C919	1n5	
C920	1n	
C922	not used	
C923	39p	
C924	22p	
C926	470p	
C927	22p	
C928	22p	
C929	6p8	
C930	6p8	
C931	0p8	
C932	1n	
C933	1n	
C934	1n	
C935	1n	
CR111	HSMS2825	RF Detector Diode
CR112	BAS28	RF Attenuator
CR113	BAS28	RF Attenuator
CR121	BAT54S	Voltage Protection
CR131	BAS28	Mixer
CR141	BAS21	Fast Start-Up Diode
CR142	BB155	Tuning Capacitor
CR143	BB155	Tuning Capacitor
CR161	BAS28	Mixer
CR171	BAS21	Fast Start-Up Diode
CR172	BAT54S	Voltage Protection
CR181	HSMS2810	Mixer
CR191	BAS21	Fast Start-Up Diode
CR2003	BAS21	Voltage Protection
CR201	BAS21	Fast Start-Up Diode
CR202	BAS21	Protection Diode
CR2101	BAS21	Part Of Current Sense Circuit
CR2102	BAS21	Part Of Current Sense Circuit
CR2401	BAS28	Voltage Protection
CR2402	BAS28	Voltage Protection
CR2501	BAS28	Voltage Protection
CR2801	BAS28	Voltage Protection
CR2803	BAS21	Pull Down Diode
CR2901	BAS21	Pull Down Diode
CR2902	BAS21	Pull Down Diode
CR2903	BAS21	Pull Down Diode

CR2904	BAS21	Pull Down Diode
CR2905	BAS21	Pull Down Diode
CR2906	BAS21	Pull Down Diode
CR2907	BAS21	Pull Down Diode
CR2908	BAS21	Pull Down Diode
CR2909	BAS21	Pull Down Diode
CR2910	BAS21	Pull Down Diode
CR2911	BAS21	Pull Down Diode
CR2912	BAS21	Pull Down Diode
CR2913	BAS21	Pull Down Diode
CR2914	BAS21	Pull Down Diode
CR2915	BAS21	Pull Down Diode
CR2916	BAS21	Pull Down Diode
CR2917	Not used	Not used
CR2918	Not used	Not used
CR2919	Not used	Not used
CR2920	Not used	Not used
CR3001	BYD77	Voltage Protection
CR3002	BYD77	Voltage Protection
CR3003	BYD77	Voltage Protection
CR3004	BYD77	Voltage Protection
CR3005	BYD77	Voltage Protection
CR3006	BYD77	Voltage Protection
CR3007	BYD77	Voltage Protection
CR3008	BYD77	Voltage Protection
CR3009	BYD77	Voltage Protection
CR3010	BYD77	Voltage Protection
CR3011	BYD77	Voltage Protection
CR3012	BYD77	Voltage Protection
CR3201	BAS28	Voltage Protection
CR3202	BAS28	Voltage Protection
CR3301	BAS28	Voltage Protection
CR3302	BAS28	Voltage Protection
CR3351	BAS28	Voltage Protection
CR3352	BAS28	Voltage Protection
CR3401	BAS28	Voltage Protection
CR3402	BAS28	Voltage Protection
CR3501	BAS28	Voltage Protection
CR3502	BAS28	Voltage Protection
CR3551	BAS28	Voltage Protection
CR3552	BAS28	Voltage Protection
CR3601	BAS28	Voltage Protection
CR3602	BAS28	Voltage Protection
CR3603	BAS28	Voltage Protection
CR3604	BAS28	Voltage Protection
CR3701	BYD77	Voltage Protection
CR3702	BYD77	Voltage Protection
CR3703	BYD77	Voltage Protection
CR3704	BYD77	Voltage Protection
CR3705	BYD77	Voltage Protection
CR3706	BYD77	Voltage Protection
CR3707	BYD77	Voltage Protection
CR3708	BYD77	Voltage Protection
CR3709	BYD77	Voltage Protection
CR3710	BYD77	Voltage Protection
CR3711	BYD77	Voltage Protection

CR3712	BYD77	Voltage Protection
CR3713	BAS28	Voltage Protection
CR3714	BAS28	Voltage Protection
CR3715	BAS28	Voltage Protection
CR3716	BAS28	Voltage Protection
CR3717	BAS28	Voltage Protection
CR3718	BAS28	Voltage Protection
CR3719	BAS28	Voltage Protection
CR3720	BAS28	Voltage Protection
CR3721	BAS28	Voltage Protection
CR3722	BAS28	Voltage Protection
CR3801	BAT54S	LF Detector
CR3802	BAS21	Voltage Protection
CR3803	BAS21	Part Of LF Detector
CR41	BAT54S	Part Of BITE Circuit
CR4101	BAS21	Part Of BITE Circuit
CR4102	BAS21	Voltage Protection
CR4103	BAS21	Part Of BITE Circuit
CR4201	BYD77	Voltage Protection
CR4202	BYD77	Voltage Protection
CR4203	BYD77	Voltage Protection
CR4204	BYD77	Voltage Protection
CR4205	Not used	Not used
CR4206	BYD77	Voltage Protection
CR4207	BYD77	Voltage Protection
CR4208	BYD77	Voltage Protection
CR4209	BYD77	Voltage Protection
CR4301	BYD77	Voltage Protection
CR4302	BYD77	Voltage Protection
CR4303	BYD77	Voltage Protection
CR4304	BYD77	Voltage Protection
CR4305	Not used	Not used
CR4306	BYD77	Voltage Protection
CR4307	BYD77	Voltage Protection
CR4308	BYD77	Voltage Protection
CR4309	BYD77	Voltage Protection
CR4401	Not used	Not used
CR4501	Not used	Not used
CR4801	BYD77	Not used
CR4802	BYD77	Not used
CR4803	BYD77	Not used
CR4804	BYD77	Not used
CR4805	BYD77	Not used
CR4806	BYD77	Not used
CR4807	BYD77	Not used
CR4808	BYD77	Not used
CR4809	BYD77	Voltage Protection
CR4810	BYD77	Voltage Protection
CR4811	BYD77	Voltage Protection
CR4812	BYD77	Voltage Protection
CR4813	BYD77	Voltage Protection
CR4814	BYD77	Voltage Protection
CR4815	BYD77	Voltage Protection
CR4816	BYD77	Voltage Protection
CR4819	BYD77	Voltage Protection
CR4820	BYD77	Voltage Protection

CR4821	BYD77	Voltage Protection
CR4822	BYD77	Voltage Protection
CR4823	BYD77	Voltage Protection
CR4824	BYD77	Voltage Protection
CR4825	BYD77	Voltage Protection
CR4826	BYD77	Voltage Protection
CR4827	BYD77	Voltage Protection
CR4828	BYD77	Voltage Protection
CR4831	BYD77	Voltage Protection
CR4832	BYD77	Voltage Protection
CR4833	BYD77	Voltage Protection
CR4834	BYD77	Voltage Protection
CR4835	BYD77	Voltage Protection
CR4836	BYD77	Voltage Protection
CR4837	BYD77	Voltage Protection
CR4838	BYD77	Voltage Protection
CR4839	BYD77	Voltage Protection
CR4840	BYD77	Voltage Protection
CR4841	BYD77	Voltage Protection
CR4842	BYD77	Voltage Protection
CR4843	BYD77	Voltage Protection
CR4844	BYD77	Voltage Protection
CR4901	BYD77	Voltage Protection
CR51	BAS28	Mixer
CR61	BAS21	Fast Start-Up Diode
CR62	BAT54S	Voltage Protection
CR81	BB155	Tuning Capacitor
CR91	BAT54S	Not used
CR92	BAT54S	Not used
CS101	100pF	
CS102	100pF	
CS111	100pF	
CS112	100pF	
CS113	4x100p	
CS114	4x100p	
CS115	100pF	
CS116	100pF	
CS117	100pF	
CS118	100pF	
CS119	100pF	
CS121	22nF	
CS122	22nF	
CS141	22nF	
CS142	100pF	
CS143	100pF	
CS144	100pF	
CS145	100pF	
CS151	22nF	
CS152	22nF	
CS153	22nF	
CS171	22nF	
CS172	100pF	
CS173	100pF	
CS174	100pF	
CS175	100pF	
CS181	100pF	

CS182	100pF	
CS21	100pF	
CS41	22nF	
CS42	22nF	
CS61	22nF	
CS62	100pF	
CS63	100pF	
CS64	100pF	
CS65	100pF	
CS81	22nF	
CS82	100pF	
CS83	100pF	
CS84	100pF	
CS91	100pF	
CS92	100pF	
CS93	100pF	
DS141	RED	Out Of Lock LED
DS171	RED	Out Of Lock LED
DS2201	Red	LED
DS2202	Red	LED
DS2203	Red	LED
DS2601	RED	LED
DS3101	RED	LED
DS3102	RED	LED
DS3901	RED	LED
DS4701	Red	Tx LED
DS4702	Red	SYNC LED
DS4703	Red	Tx LED
DS4704	Red	SYNC LED
DS61	RED	Out Of Lock LED
DS81	RED	Out Of Lock LED
F1001	KFF6450A	
F1101	KFF6450A	
F1301	16M9	
F1302	16M9	
F1501	SFSH4.5MEB2	
F1502	SFSH4.5MEB2	
F1601	16M9	
F1602	16M9	
F201	KFF6449A	
F202	SAFC83.160MA40X	
F301	CFWM455CY	
F501	16M9	
F502	16M9	
HY111	SI-7R-1640G	
HY112	CP0805B1747AW	
HY141	STH-24R	
HY142	STH-24R	
HY21	CP0805B1747AW	
L1001	33nH	
L1004	3n9H	
L1101	Not used	
L1103	10nH	
L1104	10nH	
L1105	2n2H	
L1106	6n8H	

L1201	5u6H	
L1202	5u6H	
L1301	220uH	
L1302	220uH	
L1303	10uH	
L1304	1uH	
L1306	10uH	
L1307	4u7H	
L1401	10uH	
L1402	79nH	
L1403	100nH	
L1404	270nH	
L1405	68nH	
L1601	220uH	
L1602	220uH	
L1603	10uH	
L1604	1uH	
L1605	1u8H	
L1606	10uH	
L1607	4u7H	
L1701	1uH	
L1801	39nH	
L2001	10uH	
L201	8nH	
L202	4n7H	
L203	4n7H	
L205	5n6H	
L208	5n6H	
L209	470nH	
L210	470nH	
L211	10nH	
L213	10nH	
L2301	5m6H	
L3801	15uH	
L401	5u6H	
L402	5u6H	
L501	220uH	
L502	220uH	
L503	10uH	
L504	1uH	
L505	1u8H	
L506	10uH	
L507	4u7H	
L601	1uH	
L602	39nH	
L701	220uH	
L702	220uH	
L703	1u8H	
L801	330nH	
L802	220nH	
L803	180nH	
L901	56nH	
L902	10uH	
L904	56nH	
Q1201	BC848B	Amplifier
Q1301	BFS20	RF Amplifier

Q1401	BC860B	Buffer
Q1402	BFQ81	Oscillator
Q1403	BFR92A	RF Amplifier
Q1404	BFR92A	RF Amplifier
Q1501	BC848B	Amplifier
Q1601	BFS20	RF Amplifier
Q1701	BC860B	Buffer
Q2001	Si9426DY	Power Supply Regulator
Q2002	BSR17A	Power Supply Switch
Q201	BFG520	RF Amplifier
Q2101	BSR17A	Not Used
Q2102	BSR17A	Not Used
Q2103	BSR17A	Switch
Q2104	BSR17A	Switch
Q2105	BSR16	Switch
Q2106	BSR16	Switch
Q3001	BC860B	Not Used
Q3002	BC860B	Buffer
Q401	BC848B	Amplifier
Q4101	FMMT458	Switch
Q4102	BC860B	Power Supply Switch
Q4103	FMMT458	Switch
Q4201	BC860B	Part Of BITE Circuit
Q4202	BSN20	Part Of BITE Circuit
Q4601	BC848B	Handset Connected Detector
Q501	BFS20	RF Amplifier
Q601	BC860B	Buffer
Q701	BC848B	Amplifier
Q801	BC860B	Buffer
Q802	BF747	RF Amplifier
Q803	BF747	RF Amplifier
Q804	BF747	VCO
R1001	270R	
R1002	2R2	
R1003	100R	
R1004	2R2	
R1005	100R	
R1009	1K20	
R1010	100R	
R1011	100R	
R1012	1K20	
R1013	49R9	
R1014	4K7	
R1015	4k7	
R1016	470R	
R1101	1K	
R1102	1K	
R1103	49R9	
R1104	10K	
R1105	62K	
R1106	1K	
R1107	47K	
R1108	1K	
R1109	49R9	
R1110	2R2	
R1111	120R	

R1112	120R
R1113	1K
R1115	49R9
R1116	100K
R1117	47K
R1118	1K5
R1119	33K
R1120	360R
R1122	10K
R1123	49R9
R1124	1K
R1125	49R9
R1201	10R
R1202	10R
R1203	91R
R1204	91R
R1205	3K9
R1206	1M
R1207	33K
R1208	1K8
R1209	10K
R1210	470R
R1211	Not used
R1212	10R
R1301	560R
R1302	2K4
R1303	2K4
R1304	2K2
R1305	360R
R1306	270R
R1307	2K2
R1308	27K
R1309	1K
R1310	10K
R1311	470R
R1312	56R
R1313	3K0
R1401	1K8
R1402	100K
R1403	10R
R1404	33K
R1405	820R
R1406	3K3
R1407	4K7
R1408	10k
R1409	1K
R1410	1K
R1411	47K
R1412	3K0
R1413	100R
R1414	49R9
R1415	68R
R1417	16R
R1418	33R0
R1419	49R9
R1420	2K2

R1421	2K2
R1422	2K2
R1423	1K
R1424	4K7
R1425	10R
R1426	560R
R1427	560R
R1428	0R
R1429	100R
R1430	1K
R1431	56R
R1432	Not used
R1433	Not used
R1434	3K3
R1435	220R
R1436	120R
R1437	120R
R1438	1K20
R1439	120R
R1440	1K20
R1441	39R0
R1442	49R9
R1444	100R
R1445	68R
R1446	68R
R1447	100R
R1501	10R
R1502	330R
R1503	1K
R1504	3K9
R1505	10R
R1506	1M
R1507	33K
R1508	1K8
R1509	10K
R1510	470R
R1511	10R
R1512	680R
R1513	470R
R1514	1K
R1515	Not used
R1601	270R
R1602	2K4
R1603	2K4
R1604	2K2
R1605	330R
R1606	270R
R1607	2K2
R1608	27K
R1609	1K5
R1610	10K
R1611	470R
R1612	56R
R1613	4K7
R1614	270R
R1701	2R2

R1702	100K
R1703	33K
R1704	10R
R1705	820R
R1706	3K3
R1707	10R
R1708	10K
R1709	470R
R1710	820R
R1711	330R
R1712	1K
R1713	49R9
R1714	49R9
R1715	1K
R1719	330R
R1720	10R
R1721	68R
R1723	68R
R1725	1K8
R1726	100R
R1727	100R
R1728	4K7
R1801	180R
R1802	180R
R1803	68R
R1804	68R
R1805	1K
R1808	68R
R1809	68R
R1810	49R9
R1811	49R9
R1812	220R
R1813	10k
R1901	10R
R1902	0R
R1903	100R
R1904	10R
R1905	33R0
R1906	0R
R1907	0R
R1908	1M
R1911	100R
R1912	22K0
R1915	0R
R1916	0R
R1917	0R
R1918	0R
R1919	10R
R1920	10R
R1921	10R
R1922	1K
R1923	2K
R1924	20K
R1925	100R
R2001	3K9
R2002	47K

R2003	47K
R2004	10K
R2005	100K
R2006	10K
R2007	10K
R201	10R
R2020	0R
R2021	Not used
R2022	0R
R2023	0R
R206	510R
R207	2R2
R208	470R
R209	1K
R210	49R9
R2101	47K
R2102	470R
R2103	1R0
R2104	10K
R2105	10K
R2106	10K
R2107	1K8
R2108	47K
R2109	47K
R211	10R
R2110	10K
R2111	470R
R2112	1R0
R2113	10K
R2114	10K
R2115	47K
R2116	10K
R2117	1K8
R2118	47K
R2119	47K
R212	49R9
R2120	10K
R2121	100K
R2122	100K
R213	180R
R214	1K
R215	3K9
R216	470R
R217	1K
R218	22R0
R2201	0R
R2202	0R
R2203	4K7
R2204	Not used
R2205	10K
R2206	10K
R2207	1k
R2209	2K4
R221	10K
R2210	4K7
R2211	Not used

R2212	not used
R2213	Not used
R2214	Not used
R2218	10K
R2219	10K
R2220	0R
R2221	10K
R2222	10K
R2223	510R
R2224	510R
R2225	510R
R2226	2K4
R2227	4K7
R2228	1K
R2229	100R
R223	49R9
R2230	4K7
R2231	10K
R2232	10K
R2233	4K7
R2234	1K
R2235	1K
R2236	0R
R2237	Not used
R2238	0R
R2239	0R
R224	49R9
R2240	not used
R2241	10K
R2242	10K
R2243	10K
R2244	not used
R2245	not used
R2301	2R2
R2401	10R
R2402	10R
R2403	330R
R2404	330R
R2405	Not used
R2406	Not used
R2407	10R
R2408	10R
R2501	3K9
R2502	2K4
R2503	10K
R2504	2K2
R2505	1K
R2506	1K
R2507	1K
R2508	12K
R2601	33R0
R2602	33R0
R2603	33R0
R2701	10K
R2801	47K
R2802	100R

R2803	10K
R2804	680K
R2805	270K
R2901	680K
R3001	10K
R3002	10K
R3003	47K
R3004	10K
R3005	10K
R3006	220R
R3007	1K5
R3008	4K7
R301	49R9
R3013	10K
R302	10R
R303	2K2
R304	10R
R305	10k
R306	30K0
R307	1k5
R308	1K
R309	6K2
R310	49R9
R3101	1K
R3102	1K
R311	2K7
R312	10k
R313	1K30
R314	1k5
R315	180R
R316	3K3
R317	6K8
R318	2K
R3201	30K0
R3202	30K0
R3203	30K0
R3204	30K0
R3205	1K
R3206	12K
R3207	4K7
R3208	12K
R3209	4K7
R3210	10K
R3211	6K2
R3212	6K2
R3213	10K
R3301	30K0
R3302	30K0
R3303	30K0
R3304	30K0
R3305	1K
R3306	12K
R3307	4K7
R3308	12K
R3309	4K7
R3351	30K0

R3352	30K0
R3353	30K0
R3354	30K0
R3355	1K
R3356	12K
R3357	4K7
R3358	12K
R3359	4K7
R3401	30K0
R3402	30K0
R3403	30K0
R3404	30K0
R3405	1K
R3406	12K
R3407	4K7
R3408	12K
R3409	4K7
R3501	30K0
R3502	30K0
R3503	30K0
R3504	30K0
R3505	1K
R3506	12K
R3507	4K7
R3508	12K
R3509	4K7
R3551	30K0
R3552	30K0
R3553	30K0
R3554	30K0
R3555	1K
R3556	12K
R3557	4K7
R3558	12K
R3559	4K7
R3601	30K0
R3602	30K0
R3603	30K0
R3604	30K0
R3605	1K
R3606	12K
R3607	4K7
R3608	12K
R3609	4K7
R3610	30K0
R3611	30K0
R3612	30K0
R3613	30K0
R3614	1K
R3615	12K
R3616	4K7
R3617	12K
R3618	4K7
R3719	100K
R3720	100K
R3801	82R

R3803	10K
R3804	22K0
R3805	10K
R3806	4K7
R3807	180R
R3808	15K
R3809	1K30
R3810	0R
R3811	22K0
R3813	750R
R3814	0R
R3815	330K
R3816	Not used
R3817	Not used
R3818	Not used
R3819	0R
R3820	Not used
R3821	15K
R3901	10K
R3902	10K
R3903	1K
R3904	4K7
R3905	1K
R3906	1K
R3907	10K
R3908	10K
R3909	1K
R4001	10K
R4002	10K
R4003	10K
R4004	10K
R4005	10K
R4006	10K
R4007	10K
R4008	10K
R4009	10K
R401	10R
R4010	10K
R402	91R
R403	91R
R404	3K9
R405	10R
R406	1M
R407	33K
R408	1K8
R409	10K
R410	470R
R4101	100K
R4102	10K
R4103	47K
R4104	10K
R4105	33K
R4106	10K
R4107	680R
R4108	680R
R4109	1K

R411	Not used
R4110	10K
R4111	1K
R4112	33K
R4113	680R
R4114	5K6
R4115	10K
R4116	5K6
R4117	10K
R412	100R
R4201	62K
R4202	30K
R4203	22K0
R4204	47K
R4205	220K
R4206	100K
R4207	47K
R4208	62K
R4209	100K
R4210	100K
R4211	30K
R4212	100K
R4213	10K
R4214	10K
R4215	7K5
R4216	4K7
R4217	47R
R4218	5K1
R4219	10K
R4220	4K7
R4221	100K
R4222	4K7
R4223	47R
R4224	4K7
R4225	4K7
R4226	20K
R4301	62K
R4302	30K
R4303	47K
R4304	100K
R4305	100K
R4306	220K
R4307	47K
R4308	62K
R4309	30K
R4310	1K
R4311	10K
R4312	7K5
R4313	4K7
R4314	5K1
R4315	47R
R4316	4K7
R4317	4K7
R4318	6K8
R4319	47R
R4320	4K7

R4321	20K
R4401	10K
R4402	30K
R4403	47K
R4404	220K
R4405	47K
R4406	10K
R4407	30K
R4408	10K
R4409	7K5
R4410	4K7
R4411	4K7
R4412	47R
R4413	4K7
R4414	4k7
R4415	4K7
R4416	47R
R4417	5K1
R4418	20K
R4501	10K
R4502	30K
R4503	47K
R4504	220K
R4505	47K
R4506	10K
R4507	30K
R4508	10K
R4509	7K5
R4510	4K7
R4511	5K1
R4512	47R
R4513	4K7
R4514	4K7
R4515	4K7
R4516	47R
R4517	4K7
R4518	20K
R4602	30K
R4603	47K
R4604	47K
R4606	30K
R4607	47K
R4608	100K
R4609	100K
R4610	270R
R4612	220K
R4613	5K6
R4614	5K1
R4615	47R
R4616	4K7
R4617	4K7
R4618	47R
R4701	10K
R4702	10R
R4703	10R
R4704	10K

R4801	100K
R4802	100K
R4803	100K
R4804	100K
R4805	100K
R4806	10K
R4807	10K
R4808	10K
R4809	10K
R4810	10K
R4818	10K
R4901	1K
R4902	2K
R4903	100R
R4904	33R0
R4905	1K
R4906	10k
R4907	2K
R4908	10K
R4909	1K
R4910	2K
R4911	2K
R4912	10K
R4913	10k
R4914	4K7
R4915	10K
R4916	10K
R4917	10K
R4919	33R0
R4920	10R
R4921	33R0
R501	270R
R502	2K4
R503	2K4
R504	2K2
R505	330R
R506	270R
R507	2K2
R508	27K
R509	1K5
R510	10K
R511	470R
R512	56R
R513	3K9
R514	270R
R601	10R
R602	100K
R603	2R2
R604	33K
R605	820R
R606	3K3
R607	10R
R608	10K
R609	1K8
R610	820R
R612	49R9

R613	1K
R614	49R9
R615	1K
R616	49R9
R617	10R
R618	16R
R619	16R
R620	16R
R621	330R
R622	Not used
R623	1K8
R624	4K7
R701	510R
R702	0R
R703	1K
R704	2R2
R705	2K2
R706	2K2
R707	2K2
R708	47K
R709	47K
R710	Not used
R711	1K
R712	1K05
R713	10R
R714	33K
R715	820R
R716	1K05
R717	10K
R718	180R
R719	2K
R720	2K
R721	120R
R722	120R
R801	1K8
R802	100K
R803	33K
R804	820R
R805	3K3
R806	10R
R807	4K7
R808	10k
R809	10R
R810	49R9
R811	24R0
R812	0R
R813	6K2
R814	10R
R815	Not used
R816	680R
R817	49R9
R818	10k
R819	33R0
R820	24R0
R821	680R
R822	24R0

R823	0R
R824	Not used
R825	39R0
R826	20k
R827	30K0
R828	10k
R829	39R0
R830	10R
R831	33R0
R832	150R
R833	3K3
R834	100R
R835	680R
R836	10K
R837	330R
R838	150R
R839	3K3
R901	1K
R902	10K
R903	1K
R904	10K
R905	2R2
R906	56K0
R907	18K0
R908	2K0
R909	10R0
R910	10R0
R911	332R
R912	120R
R913	332R
R914	1K
R915	56K0
R916	18K0
R917	2K0
R918	56R
R919	56R0
R920	120R
R921	120R
R922	0R
RS111	4x10K
RS112	4x10K
RS113	4x1K
RS2001	4x10K
RS21	4x10K
RS2201	4x10K
RS2202	4x100K
RS2203	4x10K
RS2204	4x10K
RS2301	4x10K
RS2601	4x10K
RS2602	4x10K
RS2603	4x10K
RS2604	4x10K
RS2605	4x1K
RS2801	4x10K
RS2802	4x10K

RS2803	4x10K	
RS2804	4x10K	
RS2805	4x10K	
RS2806	4x10K	
RS2807	4x10K	
RS2808	4x33R	
RS2901	4x270K	
RS2902	4x10K	
RS2903	4x10K	
RS2904	4x680K	
RS2905	4x10K	
RS2906	4x10K	
RS2907	4x680K	
RS2908	4x680K	
RS2909	4x270K	
RS2910	4x270K	
RS2911	4x10K	
RS2912	4x10K	
RS2913	4x680K	
RS2914	4x33R	
RS2915	4x270K	
RS2916	4x10K	
RS3001	4x10K	
RS3002	4x10K	
RS3101	4x10K	
RS3102	4x10K	
RS3103	4x10K	
RS3901	4x100K	
RS3902	4x100K	
RS3903	4x100K	
RS3904	4x100K	
RS4001	4x100K	
RS4002	4x100K	
RS4003	4x100K	
RS4201	4x100K	
RS4301	4x100K	
RS4302	4x100K	
RS4303	4x100K	
RS4701	4x100k	
RS4702	4x1K	
RS4703	4x10K	
S2201	DIPSW4	
T1101	PD15-73	
T1102	PD15-73	
U1001	UPC8106TB	Mixer
U1002	BGA420	RF Amplifier
U1003	MA4P274CK	Gain Control
U1004	MA4P274CK	Gain Control
U1005	BGA420	RF Amplifier
U1101	MC74HC4053D	Multiplexer
U1102	MC74HC4053D	Multiplexer
U1103	AD210-25	Attenuator
U1104	CMM2306	RF Amplifier
U1105	MC33204D	Op Amp
U1106	MC74HC4053D	Multiplexer
U1201	AD9832	DDS

U1202	74VHC04	Spare
U1203	74VHC74	D type Flip-Flop
U1204	74HC40103	Divider
U1205	TC7S04F	Pulse Shaper
U1206	TC7S04F	Buffer
U1207	AHCT1G08	AND Gate
U1401	ADF4110BCP	PLL
U1501	AD9832	DDS
U1502	74VHC04	Inverter
U1503	74HC40103	Divider
U1504	74VHC74	D type Flip-Flop
U1505	TC7S04F	Pulse Shaper
U1506	74HCT174	D type Flip-Flop
U1701	ADF4113BRU	PLL
U1702	BGA420	RF Amplifier
U1703	BGA420	RF Amplifier
U1801	UPG152TA	RF Switch
U1802	74VHC04	Switch Driver
U1901	L78L05AB	Voltage Regulator
U1902	74VHC04	Inverter
U1903	74VHC08	AND Gate
U1904	74VHC08	AND Gate
U1905	VTXO510RDW	Oscillator
U1906	74HCT1G66	Switch
U1907	AHCT1G08	AND Gate
U1908	TC7S04F	Pulse Shaper
U1909	TC7S04F	Pulse Shaper
U2001	L79L05AB	Voltage Regulator
U2003	SI4953DY	Power Switch
U2004	LMC7101	Op Amp
U2005	MIC5209	Voltage Regulator
U2006	not used	Not Used
U201	RF2361	RF Amplifier
U202	CMM2306	RF Amplifier
U203	MD54-0006	Mixer
U204	AA100-59	Attenuator
U2101	SI4953DY	Power Switch
U2102	LMC7101	Not Used
U2103	LMC7101	Op Amp
U2201	MPC823	Microprocessor
U2202	AM29DL640	Flash
U2203	AM29DL640	Flash
U2204	K6F1616U6A	RAM
U2205	K6F1616U6A	RAM
U2206	MAX793S	Microprocessor Supervisory Circuit
U2207	8593	Real Time Clock
U2209	74LVC138	Chip Select
U2210	74LVC08	AND Gate
U2211	74LVC162374	16 Bit Register
U2212	74LVC08	AND Gate
U2214	AD7415-0	Temperature Sensor
U2215	SC1453-3.2	Voltage Regulator
U2216	CAT24WC04	EEPROM
U2301	FS6370	Programmable PLL Clock Generator
U2302	74VHC74	D type Flip-Flop
U2401	74LVC138	Chip Select

U2402	16C654	Quad UART
U2404	MAX3488	RS 422 Transceiver
U2405	MAX3222	RS 232 Transceiver
U2406	MAX3488	RS 422 Transceiver
U2407	MAX3222	RS 232 Transceiver
U2501	74LVC138	Multiplexer
U2502	74LVC138	Chip Select
U2503	IDT74FCT162374	16 Bit A/D Converter
U2504	AD7829	8 Bit A/D Converter
U2505	IDT74FCT162374	16 Bit A/D Converter
U2601	XC2S15	FPGA
U2701	74FCT162245	Bidirectional Transceiver
U2702	74VHC245	Bidirectional Transceiver
U2801	74HC165	PISO Register
U2802	74HC165	PISO Register
U2803	74HC165	PISO Register
U2804	74VHC14	Inverter
U2901	74HC165	PISO Register
U2902	74HC165	PISO Register
U2903	74HC165	PISO Register
U3001	74HCT365	3 State Line Driver
U3002	MC33298	8 Output Switch
U3003	MC33298	8 Output Switch
U3005	PhotoMos Relay	Reay
U301	AD607	MF Receiver
U302	AD8051	Filter
U3101	XC2S150	FPGA
U3102	XCF02S	FLASH PROM
U3201	LM2901	Comparator
U3202	LM6134	Op Amp
U3301	LM2901	Comparator
U3501	LM2901	Comparator
U3502	LM6134	Op Amp
U3601	LM2901	Comparator
U3602	LM6132	Op Amp
U3702	DG445	Analog Switch
U3703	DG445	Analog Switch
U3705	3182	ARINC429 Line Driver
U3706	3182	ARINC429 Line Driver
U3707	3182	ARINC429 Line Driver
U3708	3182	ARINC429 Line Driver
U3802	AD8051	Filter
U3803	MAX998EUT-T	Level Shift Detector
U3901	LE58LQ031JC	QSLAC
U3902	ADSP2186M-bga	DSP
U3903	74VHC04	Inverter
U3904	74VHC32	OR Gate
U3905	74VHC00	NAND Gate
U3906	MT89L80	Data Switch
U3907	74VHC245	Bidirectional Transceiver
U3908	LE58LQ031JC	QSLAC
U4001	MAX3483	RS422 Transceiver
U4002	MAX3483	RS422 Transceiver
U4003	XR16C854	Quad UART
U4004	MAX3483	RS422 Transceiver
U4005	MAX3483	RS422 Transceiver

U4006	MAX3483	RS422 Transceiver
U4007	MC74HC4053D	Multiplexer
U401	AD9832	DDS
U402	74VHC04	Inverter
U403	74VHC74	D type Flip-Flop
U404	74HC40103	Divider
U405	TC7S04F	Pulse Shaper
U4101	MC33202D	Op Amp
U4102	MH88615-7	SLIC
U4103	SI4948EY	Analog Switch
U4105	MH88615-7	SLIC
U4106	L79L05AB	Voltage Regulator
U4201	DG445	Analog Switch
U4202	LMC6484	Op Amp
U4203	74VHC04	Inverter
U4204	TLE2142CD	Op Amp
U4302	LMC6484	Op Amp
U4303	IDT74FCT162374	16 Bit A/D Converter
U4304	DG445	Analog Switch
U4306	TLE2142CD	Op Amp
U4403	DG445	Analog Switch
U4405	TLE2142CD	Op Amp
U4503	DG445	Analog Switch
U4505	TLE2142CD	Op Amp
U4605	TLE2142CD	Op Amp
U4701	ADSP2189M-bga	DSP
U4702	74LVC08	AND Gate
U4703	7805	Voltage Regulator
U4704	74VHC00	NAND Gate
U4706	AD 7896	12 Bit A/D Converter
U4708	AD7390AR	12 Bit D/A Converter
U4709	74VHCT08	AND Gate
U4710	AHCT1G08	AND Gate
U4901	74HCT365	3 State Line Driver
U4902	SI4948EY	Analog Switch
U4903	74HCT244	3 State Line Driver
U601	ADF4113BRU	PLL
U602	BGA420	RF Amplifier
U603	UPC 2709	RF Amplifier
U701	RF2713	Demodulator
U702	TLE2142CD	Op Amp
U801	ADF4110BCP	PLL
U901	TLE2142CD	Op Amp
U902	MC33202D	Op Amp
U903	U2793B	Op Amp
VR111	1SMB5.0AT3	Voltage Protection
VR21	1.5SMC15AT3	Voltage Protection
VR211	3V3	Not Used
VR212	3V3	Not Used
VR213	3V3	Voltage Protection
VR214	3V3	Voltage Protection
VR3701	1SMB5.0AT3	Voltage Protection
VR3702	1SMB5.0AT3	Voltage Protection
VR3802	1.5SMC15AT3	Voltage Protection
VR4101	22V	Part of BITE in Line Circuit
VR4102	9V1	Voltage Reference

VR4103	7V5	Part of Power Supply Circuit
VR4104	22V	Part of BITE in Line Circuit
VR4201	1.5SMC15AT3	Voltage Protection
VR4202	1.5SMC15AT3	Voltage Protection
VR4801	1.5SMC15AT3	Voltage Protection
VR4802	1.5SMC15AT3	Voltage Protection
VR4803	1SMB5.0AT3	Voltage Protection
VR4804	1.5SMC6.8AT3	Voltage Protection
VR4805	1.5SMC6.8AT3	Voltage Protection
VR4806	1.5SMC39AT3	Voltage Protection
Y1701	ROS-1476	VCO
Y2201	32K768	
Y601	ROS-1476	VCO
Z4101	40V	Voltage Protection
Z4102	40V	Voltage Protection
Z4103	40V	Voltage Protection
Z4104	40V	Voltage Protection
Z4801	SP720	ESD Protection
Z4802	SRDA3.3-6	ESD Protection
Z4803	SRDA3.3-6	ESD Protection
Z4804	30V	ESD Protection
Z4805	30V	ESD Protection
Z4806	30V	ESD Protection
Z4809	30V	ESD Protection
Z4810	30V	ESD Protection
Z4811	30V	ESD Protection
Z4812	30V	ESD Protection
Z4819	30V	ESD Protection
Z4820	30V	ESD Protection
Z4825	SRDA3.3-6	ESD Protection
Z4826	SRDA3.3-6	ESD Protection
Z4827	SRDA3.3-6	ESD Protection
Z4901	SRDA05-6	ESD Protection
Z4902	SP720	ESD Protection
Z4903	SRDA05-6	ESD Protection