

Synthesizer and Channel Settings for Falcon

Using W9009v2 RF chip with 138 kHz reference frequency

7-Apr-99

Channel #	center frequency			R	N	A	W9009v2 RC[5:1] encoding		Sideband	In-channel 2.048 MHz Harmonic
	channel	LO	image				for Tx	for Rx		
1	902.597	913.297	923.997	73	102	7	g1001	00101	LSB	
2	902.874	913.574	924.274	73	102	9	g1001	00101	LSB	
3	903.704	914.404	925.104	73	102	15	g1001	00101	LSB	
4	903.981	914.681	925.381	73	102	17	g1001	00101	LSB	
5	904.258	914.958	925.658	73	102	19	g1001	00101	LSB	
6	904.535	915.235	925.935	73	102	21	g1001	00101	LSB	
7	904.811	915.511	926.211	73	102	23	g1001	00101	LSB	
8	905.642	916.342	927.042	73	102	29	g1001	00101	LSB	
9	905.918	916.618	927.318	73	102	31	g1001	00101	LSB	
10	906.195	916.895	927.595	73	102	33	g1001	00101	LSB	
11	906.472	917.172	927.872	73	102	35	g1001	00101	LSB	
12	906.749	917.449	928.149	73	102	37	g1001	00101	LSB	
13	907.669	896.969	886.269	73	100	17	g1010	00110	USB	
14	907.945	897.245	886.545	73	100	19	g1010	00110	USB	
15	908.222	897.522	886.822	73	100	21	g1010	00110	USB	
16	908.499	897.799	887.099	73	100	23	g1010	00110	USB	
17	908.776	898.076	887.376	73	100	25	g1010	00110	USB	
18	909.606	898.906	888.206	73	100	31	g1010	00110	USB	
19	909.883	899.183	888.483	73	100	33	g1010	00110	USB	
20	910.159	899.459	888.759	73	100	35	g1010	00110	USB	
21	910.436	899.736	889.036	73	100	37	g1010	00110	USB	
22	910.713	900.013	889.313	73	100	39	g1010	00110	USB	
23	910.990	900.290	889.590	73	100	41	g1010	00110	USB	
24	911.869	922.569	933.269	73	103	10	g1001	00101	LSB	
25	912.145	922.845	933.545	73	103	12	g1001	00101	LSB	
26	912.422	923.122	933.822	73	103	14	g1001	00101	LSB	
27	912.699	923.399	934.099	73	103	16	g1001	00101	LSB	
28	912.976	923.676	934.376	73	103	18	g1001	00101	LSB	
29	916.110	905.410	894.710	73	101	14	g1010	00110	USB	
30	916.386	905.686	894.986	73	101	16	g1010	00110	USB	
31	916.663	905.963	895.263	73	101	18	g1010	00110	USB	
32	916.940	906.240	895.540	73	101	20	g1010	00110	USB	
33	917.217	906.517	895.817	73	101	22	g1010	00110	USB	
34	918.047	907.347	896.647	73	101	28	g1010	00110	USB	
35	918.324	907.624	896.924	73	101	30	g1010	00110	USB	
36	918.601	907.901	897.201	73	101	32	g1010	00110	USB	
37	918.877	908.177	897.477	73	101	34	g1010	00110	USB	
38	919.154	908.454	897.754	73	101	36	g1010	00110	USB	
39	919.984	909.284	898.584	73	101	42	g1010	00110	USB	
40	920.261	909.561	898.861	73	101	44	g1010	00110	USB	
41	920.538	909.838	899.138	73	101	46	g1010	00110	USB	
42	920.815	910.115	899.415	73	101	48	g1010	00110	USB	
43	921.091	910.391	899.691	73	101	50	g1010	00110	USB	
44	921.922	911.222	900.522	73	101	56	g1010	00110	USB	
45	922.198	911.498	900.798	73	101	58	g1010	00110	USB	
46	922.475	911.775	901.075	73	101	60	g1010	00110	USB	
47	922.752	912.052	901.352	73	101	62	g1010	00110	USB	

CSP to Radio signal mapping

W9009 Control encoding:

	B2,B1,B0	Function
RC1 -> B0 on W9009	0 0 0	All off
RC2 -> B1 on W9009	0 0 1	Tx LSB
RC3 -> B2 on W9009	0 1 0	Tx USB
RC4 -> TXSW	0 1 1	Rx LSB with Lo Gain
RC5 -> PA Gain Control	1 0 0	Rx USB with Lo Gain
	1 0 1	Rx LSB with Hi Gain
	1 1 0	Rx USB with Hi Gain
	1 1 1	VCO On (idle)

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	channel	LO	image				for Tx	for Rx		
48	923.029	912.329	901.629	73	102	0	g1010	00110	USB	
49	923.305	912.605	901.905	73	102	2	g1010	00110	USB	
50	924.136	913.436	902.736	73	102	8	g1010	00110	USB	
51	924.412	913.712	903.012	73	102	10	g1010	00110	USB	
52	924.689	913.989	903.289	73	102	12	g1010	00110	USB	
53	924.966	914.266	903.566	73	102	14	g1010	00110	USB	
54	925.243	914.543	903.843	73	102	16	g1010	00110	USB	
55	926.073	915.373	904.673	73	102	22	g1010	00110	USB	
56	926.350	915.650	904.950	73	102	24	g1010	00110	USB	
57	926.626	915.926	905.226	73	102	26	g1010	00110	USB	
58	926.903	916.203	905.503	73	102	28	g1010	00110	USB	
59	927.180	916.480	905.780	73	102	30	g1010	00110	USB	
60	927.457	916.757	906.057	73	102	32	g1010	00110	USB	

The following channels are not acceptable for acquisition:

61	903.151	913.851	924.551	73	102	11	g1001	00101	LSB	903.168
62	903.428	914.128	924.828	73	102	13	g1001	00101	LSB	903.168
63	905.088	915.788	926.488	73	102	25	g1001	00101	LSB	905.216
64	905.365	916.065	926.765	73	102	27	g1001	00101	LSB	905.216
65	907.115	896.415	885.715	73	100	13	g1010	00110	USB	907.264
66	907.392	896.692	885.992	73	100	15	g1010	00110	USB	907.264
67	909.052	898.352	887.652	73	100	27	g1010	00110	USB	909.312
68	909.329	898.629	887.929	73	100	29	g1010	00110	USB	909.312
69	911.315	922.015	932.715	73	103	6	g1001	00101	LSB	911.36
70	911.592	922.292	932.992	73	103	8	g1001	00101	LSB	911.36
71	913.342	902.642	891.942	73	100	58	g1010	00110	USB	913.408
72	913.619	902.919	892.219	73	100	60	g1010	00110	USB	913.408
73	913.896	903.196	892.496	73	100	62	g1010	00110	USB	
74	914.172	903.472	892.772	73	101	0	g1010	00110	USB	
75	914.449	903.749	893.049	73	101	2	g1010	00110	USB	
76	914.726	904.026	893.326	73	101	4	g1010	00110	USB	
77	915.003	904.303	893.603	73	101	6	g1010	00110	USB	
78	915.279	904.579	893.879	73	101	8	g1010	00110	USB	915.456
79	915.556	904.856	894.156	73	101	10	g1010	00110	USB	915.456
80	915.833	905.133	894.433	73	101	12	g1010	00110	USB	
81	917.494	906.794	896.094	73	101	24	g1010	00110	USB	917.504
82	917.770	907.070	896.370	73	101	26	g1010	00110	USB	917.504
83	919.431	908.731	898.031	73	101	38	g1010	00110	USB	919.552
84	919.708	909.008	898.308	73	101	40	g1010	00110	USB	919.552
85	921.368	910.668	899.968	73	101	52	g1010	00110	USB	921.6
86	921.645	910.945	900.245	73	101	54	g1010	00110	USB	921.6
87	923.582	912.882	902.182	73	102	4	g1010	00110	USB	923.648
88	923.859	913.159	902.459	73	102	6	g1010	00110	USB	923.648
89	925.519	914.819	904.119	73	102	18	g1010	00110	USB	925.696
90	925.796	915.096	904.396	73	102	20	g1010	00110	USB	925.696

CSP to Radio signal mapping

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RC4 -> TXSW	0 1 1	Rx LSB with Lo Gain
RC5 -> PA Gain Control	1 0 0	Rx USB with Lo Gain
	1 0 1	Rx LSB with Hi Gain
	1 1 0	Rx USB with Hi Gain
	1 1 1	VCO On (idle)