

FCC ID: QVJSM110T
FleetLink M1 OBC, Model S-M1-10-T

Exhibit 2g

Engineering Report on

Processing Gain



DATE: 6-24-94

APPENDIX B

TEST RESULTS: JAMMING MARGINS FOR RXA-300 SPREAD SPECTRUM TRANCEIVERS.

JAMMING MARGIN (dB)

Test Frequency = 915 MHz

Test Frequency range =+- 1.4 MHz

Frequency Offset (MHz)	Unit #1 SN# 4889	Unit #2 SN# 4912	Unit #3 SN# 4941
1.40	3.8	3.0	2.4
1.35	3.5	3.0	2.2
1.30	3.1	2.9	2.0
1.25	3.0	2.7	1.8
1.20	2.8	2.6	1.6
1.15	2.7	2.2	1.5
1.10	2.6	2.0	1.5
1.05	2.5	1.8	1.2
1.00	2.2	1.6	0.9
0.95	2.2	1.5	0.8
0.90	1.9	1.6	0.7
0.85	1.8	1.6	0.8
0.80	1.8	1.5	0.6
0.75	2.0	1.7	0.7
0.70	1.9	1.6	0.5
0.65	2.1	1.4	0.3
0.60	2.0	1.4	0.9
0.55	1.9	1.3	0.7
0.50	1.7	1.0	-0.2
0.45	1.2	0.9	0.0
0.40	1.0	0.7	0.2
0.35	0.8	0.4	0.1
0.30	0.0	-0.1	-0.1
0.25	0.0	0.0	-0.2
0.20	-0.4	-0.3	-0.4
0.15	-0.4	-0.3	-0.4
0.10	-0.6	-0.4	-0.5
0.05	-0.9	-0.6	-0.6
0.00	-0.7	-0.5	-0.5
-0.05	-1.1	-0.5	-0.4
-0.10	-0.7	-0.4	-0.3
-0.15	-0.8	-0.6	-0.4
-0.20	-1.1	-0.8	-0.6
-0.25	-1.0	-0.6	-0.6
-0.30	-0.8	-0.5	-0.5
-0.35	-0.7	-0.5	-0.3
-0.40	-0.7	-0.8	-0.4
-0.45	-1.2	-0.7	-0.8
-0.50	-1.0	-0.5	-0.5
-0.55	-1.2	-0.7	-0.4
-0.60	-0.9	-0.4	-0.4
-0.65	-1.0	-0.6	-0.4
-0.70	-1.3	-0.8	-0.6
-0.75	-1.1	-0.7	-0.2
-0.80	-1.4	-0.6	-0.3
-0.85	-1.3	-0.5	-0.1
-0.90	-1.6	-0.4	0.1
-0.95	-0.7	-0.3	0.5
-1.00	-0.5	0.2	0.9
-1.05	-0.3	0.4	1.2
-1.10	-0.2	0.5	1.5
-1.15	-0.2	0.8	1.7
-1.20	0.0	0.9	2.1
-1.25	0.2	1.1	2.3
-1.30	0.6	1.4	2.5
-1.35	1.3	1.9	2.6
-1.40	1.8	2.3	3.2

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JAMMING MARGIN (dB) Mj

PROCESSING GAIN (dB) Gp

Test Frequency = 915 MHz

Formula for Processing gain

 $G_p - [L_{sys} + (S/N)_{out}] = M_j$ Test Frequency range ± 1.4 MHz Where $L_{sys}=0$ dB (worst case) $(S/N)_{out}=13$ dB for 10-5 BER

Frequency Offset (MHz)	Unit #1 Jamming Margin	Unit #1 Processing gain	Unit #2 Jamming Margin	Unit #2 Processing gain	Unit #3 Jamming Margin	Unit #3 Processing gain
1.40	3.8	16.8	3.0	16.0	2.4	15.4
1.35	3.5	16.5	3.0	16.0	2.2	15.2
1.30	3.1	16.1	2.9	15.9	2.0	15.0
1.25	3.0	16.0	2.7	15.7	1.8	14.8
1.20	2.8	15.8	2.6	15.6	1.6	14.6
1.15	2.7	15.7	2.2	15.2	1.5	14.5
1.10	2.6	15.6	2.0	15.0	1.5	14.5
1.05	2.5	15.5	1.8	14.8	1.2	14.2
1.00	2.2	15.2	1.6	14.6	0.9	13.9
0.95	2.2	15.2	1.5	14.5	0.8	13.8
0.90	1.9	14.9	1.6	14.6	0.7	13.7
0.85	1.8	14.8	1.6	14.6	0.8	13.8
0.80	1.8	14.8	1.5	14.5	0.6	13.6
0.75	2.0	15.0	1.7	14.7	0.7	13.7
0.70	1.9	14.9	1.6	14.6	0.5	13.5
0.65	2.1	15.1	1.4	14.4	0.3	13.3
0.60	2.0	15.0	1.4	14.4	0.9	13.9
0.55	1.9	14.9	1.3	14.3	0.7	13.7
0.50	1.7	14.7	1.0	14.0	-0.2	12.8
0.45	1.2	14.2	0.9	13.9	0.0	13.0
0.40	1.0	14.0	0.7	13.7	0.2	13.2
0.35	0.8	13.8	0.4	13.4	0.1	13.1
0.30	0.0	13.0	-0.1	12.9	-0.1	12.9
0.25	0.0	13.0	0.0	13.0	-0.2	12.8
0.20	-0.4	12.6	-0.3	12.7	-0.4	12.6
0.15	-0.4	12.6	-0.3	12.7	-0.4	12.6
0.10	-0.6	12.4	-0.4	12.6	-0.5	12.5
0.05	-0.9	12.1	-0.6	12.4	-0.6	12.4
0.00	-0.7	12.3	-0.5	12.5	-0.5	12.5
-0.05	-1.1	11.9	-0.5	12.5	-0.4	12.6
-0.10	-0.7	12.3	-0.4	12.6	-0.3	12.7
-0.15	-0.8	12.2	-0.6	12.4	-0.4	12.6
-0.20	-1.1	11.9	-0.8	12.2	-0.6	12.4
-0.25	-1.0	12.0	-0.6	12.4	-0.6	12.4
-0.30	-0.8	12.2	-0.5	12.5	-0.5	12.5
-0.35	-0.7	12.3	-0.5	12.5	-0.3	12.7
-0.40	-0.7	12.3	-0.8	12.2	-0.4	12.6
-0.45	-1.2	11.8	-0.7	12.3	-0.8	12.2
-0.50	-1.0	12.0	-0.5	12.5	-0.5	12.5
-0.55	-1.2	11.8	-0.7	12.3	-0.4	12.6
-0.60	-0.9	12.1	-0.4	12.6	-0.4	12.6
-0.65	-1.0	12.0	-0.6	12.4	-0.4	12.6
-0.70	-1.3	11.7	-0.8	12.2	-0.6	12.4
-0.75	-1.1	11.9	-0.7	12.3	-0.2	12.8
-0.80	-1.4	11.6	-0.6	12.4	-0.3	12.7
-0.85	-1.3	11.7	-0.5	12.5	-0.1	12.9
-0.90	-1.6	11.4	-0.4	12.6	0.1	13.1
-0.95	-0.7	12.3	-0.3	12.7	0.5	13.5
-1.00	-0.5	12.5	0.2	13.2	0.9	13.9
-1.05	-0.3	12.7	0.4	13.4	1.2	14.2
-1.10	-0.2	12.8	0.5	13.5	1.5	14.5
-1.15	-0.2	12.8	0.8	13.8	1.7	14.7
-1.20	0.0	13.0	0.9	13.9	2.1	15.1
-1.25	0.2	13.2	1.1	14.1	2.3	15.3
-1.30	0.6	13.6	1.4	14.4	2.5	15.5
-1.35	1.3	14.3	1.9	14.9	2.6	15.6
-1.40	1.8	14.8	2.3	15.3	3.2	16.2

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APPENDIX A

