



AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

GENE-4312

Reliability Prediction Report

(MTBF)

Release Date: MAR. 06, 2002

Issue Stamp

QA Manager

QE Manager

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: GENE-4312(Rev.A1.0)

II . Description: AIO SubCompact Board. GX1-300. TV/LCD/LVDS/Dual LAN/Audio.

III . Prediction Date: MAR. 06. 2002

IV . Prediction Site: AAEON QE Dept.

V . Predicted by : Linda Sun

VI . Equipment: Relx Ver.7.2 Visual Reliability Software

VII. Simulation Environment:

- Temperature: 25 degrees C(No temperature rise condition)
- Standard: Telcordia (Bellcore) Standard

VIII. Term and Definition:

- Unit An assembly of device.
- Duty Cycle Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity The quantity of the selected item.
- Failure Rate Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF MTBF is always specified in hours.

IX. Prediction Result:

- Failure Rate: 6.375293ppm
- MTBF: 156,856Hours

X. Prediction Table:

AAEON Reliability Prediction Report

Part Number 9697431200
Reference Des
Date 03. 6, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

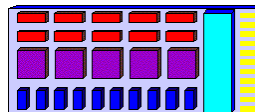


Description Top-level assembly
File Name Gene-4312.RPJ
Time 1:53 PM
Failure Rate 6.375293
MTBF 156,856

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-4312T	9697431200	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	6.375293	156,856

AAEON Reliability Prediction Report

Part Number 9697431200
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Date 03. 6, 2002
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Temperature 25.00

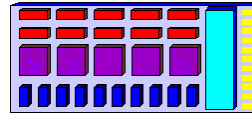


Description Top-level assembly
File Name Gene-4312.RPJ
Time 1:53 PM
Failure Rate 6.375293
MTBF 156,856

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A500133	Resistor	R59,R71,R88,R93,R98,R100,R102-103,R105,R122,R149-150,R162,R166,R260,R295,R311	Bellcore Issue 6	Level I		0.002268	17.00	.6047	0.038551	440974090.03
105A502833	Resistor	R127	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A521033	Resistor	R130	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A560423	Resistor	R134-135	Bellcore Issue 6	Level I		0.002268	2.00	.0711	0.004535	440974090.03
105A511503	Resistor	R197	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A518703	Resistor	R200	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A549963	Resistor	R303-304,R308-309,R319-320,R324-325	Bellcore Issue 6	Level I		0.002268	8.00	.2846	0.018142	440974090.03
105A502033	Resistor	R196	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A511823	Resistor	R194	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A501033	Resistor	R124,R126,R129,R133	Bellcore Issue 6	Level I		0.002268	4.00	.1423	0.009071	440974090.03
105A590923	Resistor	R131	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A507503	Resistor	R152-154,R278-279,R282	Bellcore Issue 6	Level I		0.002268	6.00	.2134	0.013606	440974090.03
105A705623	Resistor	R301,R317	Bellcore Issue 6	Level I		0.002268	2.00	.0711	0.004535	440974090.03
105A702203	Resistor	R36,R62,R68,R140,R206-210,R212-213,R216,R283,R287-288,R294	Bellcore Issue 6	Level I		0.002268	16.00	.5691	0.036283	440974090.03
105A701033	Resistor	R6-8,R11,R14,R32,R34,R48,R56,R67,R77-79,R95,R104,R112,R116,R123,R132,R146-147,R155,R160-161,R163-165,R259,R276	Bellcore Issue 6	Level I		0.002268	29.00	1.0315	0.065764	440974090.03
105A733003	Resistor	R37,R257,R258,R306-307,R322-323	Bellcore Issue 6	Level I		0.002268	7.00	.2490	0.015874	440974090.03
105A710053	Resistor	R50	Bellcore Issue 6	Level I		0.013606	1.00	.2134	0.013606	73495681.67
105A702223	Resistor	R51-52,R113,R156-157,R284	Bellcore Issue 6	Level I		0.002268	6.00	.2134	0.013606	440974090.03
105A747003	Resistor	R60,R285	Bellcore Issue 6	Level I		0.002268	2.00	.0711	0.004535	440974090.03
105A704703	Resistor	R64,R66,R69-70,R263	Bellcore Issue 6	Level I		0.002268	5.00	.1779	0.011339	440974090.03
105A710033	Resistor	R90-91,R141	Bellcore Issue 6	Level I		0.002268	3.00	.1067	0.006803	440974090.03
105A702233	Resistor	R111,R198	Bellcore Issue 6	Level I		0.002268	2.00	.0711	0.004535	440974090.03
105A702723	Resistor	R300,R316	Bellcore Issue 6	Level I		0.002268	2.00	.0711	0.004535	440974090.03
105A705103	Resistor	R195	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A700233	Resistor	R261	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A736003	Resistor	R281	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03

AAEON Reliability Prediction Report

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Temperature 25.00

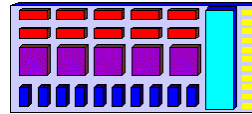


Description Top-level assembly
File Name Gene-4312.RPJ
Time 1:53 PM
Failure Rate 6.375293
MTBF 156,856

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701823	Resistor	R299,R315	Bellcore Issue 6	Level I		0.002268	2.00	.0711	0.004535	440974090.03
105A768003	Resistor	R33	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
105A701003	Resistor	R12-13,R15-23,R80-83,R128,R136-R138	Bellcore Issue 6	Level I		0.002268	18.00	.6403	0.040819	440974090.03
105A700003	Resistor	C142-143,FB55,FB74,R38,R49,R1-25,R139,R191,R193,R272-273,R2-80,R291,R293,R298,R302,R305,R-310,R314,R318,R321,R326,R329,-R330	Bellcore Issue 6	Level I		0.002268	26.00	.9248	0.058960	440974090.03
105A703303	Resistor	R1-5,R9-10,R27,R41-46,R57-58,R-92,R144-145,R158-159,R275,R277	Bellcore Issue 6	Level I		0.002268	23.00	.8181	0.052157	440974090.03
105A704723	Resistor	R31,R35,R47,R54-55,R72-74,R89,-R94,R96-97,R109-110,R114-115,R-201-205,R267-270	Bellcore Issue 6	Level I		0.002268	25.00	.8893	0.056693	440974090.03
105A701533	Resistor	R84-87,R296,R312	Bellcore Issue 6	Level I		0.002268	6.00	.2134	0.013606	440974090.03
105A710003	Resistor	R53,R117,R119-121,R137	Bellcore Issue 6	Level I		0.002268	6.00	.2134	0.013606	440974090.03
105A708203	Resistor	R61,R63,R65,R75-76	Bellcore Issue 6	Level I		0.002268	5.00	.1779	0.011339	440974090.03
105A704733	Resistor	R99,R101,R106-108,R118,R262,R-264	Bellcore Issue 6	Level I		0.002268	8.00	.2846	0.018142	440974090.03
105A706823	Resistor	R265	Bellcore Issue 6	Level I		0.002268	1.00	.0356	0.002268	440974090.03
106B501030	Resistor	RT1	Bellcore Issue 6	Level I		0.011379	1.00	.1785	0.011379	87878027.07
1124410080	Capacitor	C181,C188	Bellcore Issue 6	Level I		0.001060	2.00	.0333	0.002120	943198589.05
1124420080	Capacitor	C5-6	Bellcore Issue 6	Level I		0.001060	2.00	.0333	0.002120	943198589.05
1124468080	Capacitor	C8	Bellcore Issue 6	Level I		0.001060	1.00	.0166	0.001060	943198589.05
1129701080	Capacitor	C9-12,C21-24,C33,C60,C63,C69,C-72,C76-78,C85,C158	Bellcore Issue 6	Level I		0.005466	18.00	1.5432	0.098381	182961702.19
1124447080	Capacitor	R34-37,R133-134,R136,R183,R186	Bellcore Issue 6	Level I		0.001060	9.00	.1497	0.009542	943198589.05
1124527180	Capacitor	C61-62,C138,C184,C187	Bellcore Issue 6	Level I		0.001060	5.00	.0832	0.005301	943198589.05
1124415080	Capacitor	C66,C166-167,C176-177	Bellcore Issue 6	Level I		0.001060	5.00	.0832	0.005301	943198589.05
1124547180	Capacitor	C70,C73,C75,C84,C86,C90	Bellcore Issue 6	Level I		0.001060	6.00	.0998	0.006361	943198589.05
1121733780	Capacitor	C82,C87,C122	Bellcore Issue 6	Level I		0.002539	3.00	.1195	0.007617	393852661.82
1124422080	Capacitor	C161-162,C171-172	Bellcore Issue 6	Level I		0.001060	4.00	.0665	0.004241	943198589.05
1124515281	Capacitor	C107,C109	Bellcore Issue 6	Level I		0.001060	2.00	.0333	0.002120	943198589.05
1121722660	Capacitor	C125	Bellcore Issue 6	Level I		0.002539	1.00	.0398	0.002539	393852661.82
1124433080	Capacitor	C92-94,C128	Bellcore Issue 6	Level I		0.001060	4.00	.0665	0.004241	943198589.05

AAEON Reliability Prediction Report

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Temperature 25.00



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File Name Gene-4312.RPJ
Time 1:53 PM
Failure Rate 6.375293
MTBF 156,856

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124501780	Capacitor	C159,CP1-4,CP7,CP9,CP13-19	Bellcore Issue 6	Level I		0.001060	14.00	.2328	0.014843	943198589.05
1124510180	Capacitor	C7,C13-20,C25-32,C89,C98-101,C-123	Bellcore Issue 6	Level I		0.001060	23.00	.3825	0.024385	943198589.05
1124522180	Capacitor	C38-41,C113-119,C124	Bellcore Issue 6	Level I		0.001060	12.00	.1996	0.012723	943198589.05
1124518180	Capacitor	C42-49,C51-59	Bellcore Issue 6	Level I		0.001060	17.00	.2827	0.018024	943198589.05
1122747880	Capacitor	C64	Bellcore Issue 6	Level I		0.001598	1.00	.0251	0.001598	625953979.55
1124510280	Capacitor	C71,C74,C79-81,C131-132	Bellcore Issue 6	Level I		0.001060	7.00	.1164	0.007422	943198589.05
1124522280	Capacitor	C83,C88	Bellcore Issue 6	Level I		0.001060	2.00	.0333	0.002120	943198589.05
1124515180	Capacitor	C108,C137,C182,C185	Bellcore Issue 6	Level I		0.001060	4.00	.0665	0.004241	943198589.05
1121501680	Capacitor	BC3-22,BC24-28,BC31-57,BC60-80-,BC87-89,BC92-122,BC124-145,C3-,C140,C152-153,C155-156,C163-1-65,C168-170,C173-175,C178-180	Bellcore Issue 6	Level I		0.002539	147.00	5.8544	0.373236	393852661.82
1139710060	Capacitor	C154,CT2-3,CT5-7,CT9-12,CT15-1-6,CT23-24,CT29,CT31,CT34,CT40-,CT42,CT48,CT50	Bellcore Issue 6	Level I		0.005466	21.00	1.8004	0.114778	182961702.19
1111610100	Capacitor	CT13-14,CT52	Bellcore Issue 6	Level I		0.027242	3.00	1.2819	0.081726	36707972.85
1189682080	Capacitor	CT45,CT47	Bellcore Issue 6	Level I		0.004535	2.00	.1423	0.009071	220487045.01
1231125050	Miscellaneous	X2-3	Bellcore Issue 6	Level I		0.150000	2.00	4.7057	0.300000	6666666.67
1231232722	Miscellaneous	X1	Bellcore Issue 6	Level I		0.150000	1.00	2.3528	0.150000	6666666.67
1231114350	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	2.3528	0.150000	6666666.67
1211102762	Inductor	L1	Bellcore Issue 6	Level I	39.90	0.070211	1.00	1.1013	0.070211	14242855.03
1211101261	Inductor	L2-7	Bellcore Issue 6	Level I		0.002268	6.00	.2134	0.013606	440974090.03
1212306033	Inductor	FB19-20,FB31-32,FB35,FB51-54,F-B57,FB61-64	Bellcore Issue 6	Level I		0.002268	14.00	.4980	0.031748	440974090.03
1212306035	Inductor	FB5-6,FB13,FB18,FB39-40	Bellcore Issue 6	Level I		0.002268	6.00	.2134	0.013606	440974090.03
1212306030	Inductor	FB1-4,FB21-30,FB33-34,FB36-38,-FB41-50,FB58-60,FB65-70	Bellcore Issue 6	Level I		0.002268	38.00	1.3517	0.086173	440974090.03
1212306031	Inductor	FB7-12,FB14-17	Bellcore Issue 6	Level I		0.002268	10.00	.3557	0.022677	440974090.03
1213106008	Inductor	RP40-41,RP44,RP63(*4)	Bellcore Issue 6	Level I		0.002268	16.00	.5691	0.036283	440974090.03
1314838410	Integrated Circuit	Q6	Bellcore Issue 6	Level I	51.60	0.066696	1.00	1.0462	0.066696	14993388.27
1300414840	Semiconductor	D2,D6	Bellcore Issue 6	Level I		0.023881	2.00	.7492	0.047762	41874327.58
1302001242	Semiconductor	D9	Bellcore Issue 6	Level I		0.027212	1.00	.4268	0.027212	36747840.84
1300001240	Semiconductor	D1	Bellcore Issue 6	Level I		0.023881	1.00	.3746	0.023881	41874327.58

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Temperature 25.00



Description Top-level assembly
File Name Gene-4312.RPJ
Time 1:53 PM
Failure Rate 6.375293
MTBF 156,856

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315993310	Semiconductor	Q2	Bellcore Issue 6	Level I		0.159207	1.00	2.4972	0.159207	6281149.14
1305099140	Semiconductor	D3-5	Bellcore Issue 6	Level I		0.079603	3.00	3.7459	0.238810	12562298.27
1315160310	Semiconductor	Q5,Q7	Bellcore Issue 6	Level I		0.079603	2.00	2.4972	0.159207	12562298.27
1310222210	Semiconductor	Q1,Q3-4,Q8	Bellcore Issue 6	Level I		0.023881	4.00	1.4983	0.095524	41874327.58
14S5512500	Integrated Circuit	U14	Bellcore Issue 6	Level I		0.064937	1.00	1.0186	0.064937	15399556.24
14S5801400	Integrated Circuit	U6	Bellcore Issue 6	Level I	37.60	0.017709	1.00	.2778	0.017709	56468733.39
14S5837301	Integrated Circuit	U19-20	Bellcore Issue 6	Level I		0.039070	2.00	1.2257	0.078141	25594900.53
14S3149100	Integrated Circuit	U25	Bellcore Issue 6	Level I	47.20	0.033280	1.00	.5220	0.033280	30048111.74
14S5803200	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.037813	1.00	.5931	0.037813	26445709.42
14S3700301	Integrated Circuit	U27	Bellcore Issue 6	Level I	52.50	0.100535	1.00	1.5769	0.100535	9946796.43
14S4048500	Integrated Circuit	U7--8	Bellcore Issue 6	Level I		0.059366	2.00	1.8624	0.118732	16844654.92
14S4021300	Integrated Circuit	U4-5	Bellcore Issue 6	Level I		0.059366	2.00	1.8624	0.118732	16844654.92
14S1488000	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.059366	1.00	.9312	0.059366	16844654.92
14S4070600	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.059366	1.00	.9312	0.059366	16844654.92
14S4636300	Integrated Circuit	U18	Bellcore Issue 6	Level I	38.70	0.025141	1.00	.3943	0.025141	39776445.36
14S1307800	Integrated Circuit	U26	Bellcore Issue 6	Level I		0.059366	1.00	.9312	0.059366	16844654.92
14S3181900	Integrated Circuit	U10	Bellcore Issue 6	Level I	56.10	0.091929	1.00	1.4420	0.091929	10877918.84
14S2143000	Integrated Circuit	U24	Bellcore Issue 6	Level I		0.059366	1.00	.9312	0.059366	16844654.92
14S2252600	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.059366	1.00	.9312	0.059366	16844654.92
14S4378100	Integrated Circuit	U13	Bellcore Issue 6	Level I	38.70	0.019701	1.00	.3090	0.019701	50759571.72
14S4813904	Integrated Circuit	U28	Bellcore Issue 6	Level I	44.80	0.028789	1.00	.4516	0.028789	34735198.31
14S4813904	Integrated Circuit	U30	Bellcore Issue 6	Level I	41.10	0.022916	1.00	.3594	0.022916	43638458.59
14S4553011	Integrated Circuit	U2	Bellcore Issue 6	Level I	49.80	0.038836	1.00	.6092	0.038836	25749195.34
14S4397701	Integrated Circuit	U3	Bellcore Issue 6	Level I	41.30	0.023203	1.00	.3640	0.023203	43097084.21
14S4030000	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.039296	1.00	.6164	0.039296	25448028.36
14S6202003	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.136173	1.00	2.1360	0.136173	7343591.05
14S6334610	Integrated Circuit	U29,U31	Bellcore Issue 6	Level I		0.030598	2.00	.9599	0.061196	32681842.61
1540733180	Resistor	RP51	Bellcore Issue 6	Level I		0.006246	1.00	.0980	0.006246	160102772.00
1540710380	Resistor	RP50,RP53-59	Bellcore Issue 6	Level I		0.006246	8.00	.7838	0.049968	160102772.00
1540701380	Resistor	RP15	Bellcore Issue 6	Level I		0.006246	1.00	.0980	0.006246	160102772.00
1540747282	Resistor	RP35,RP37-39,RP42-43,RP52	Bellcore Issue 6	Level I		0.006246	7.00	.6858	0.043722	160102772.00

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Temperature 25.00



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Time 1:53 PM
Failure Rate 6.375293
MTBF 156,856

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1540710080	Resistor	RP7-9,RP10-14,RP16-28	Bellcore Issue 6	Level I		0.006246	21.00	2.0574	0.131166	160102772.00
1540727280	Resistor	RP64-66	Bellcore Issue 6	Level I		0.004684	3.00	.2204	0.014053	213470362.66
1540733082	Resistor	RP1-6,RP29-34,RP36,RP45-49	Bellcore Issue 6	Level I		0.006246	18.00	1.7635	0.112428	160102772.00
1653132220	Connection	CN1	Bellcore Issue 6	Level I		0.036414	1.00	.5712	0.036414	27461883.46
1653007101	Connection	JP2	Bellcore Issue 6	Level I		0.003983	1.00	.0625	0.003983	251080077.35
1653003201	Connection	JP4,JP8,JP12*2	Bellcore Issue 6	Level I		0.003414	4.00	.2142	0.013655	292926756.90
1653002101	Connection	JP13	Bellcore Issue 6	Level I		0.001138	1.00	.0178	0.001138	878780270.71
1653003100	Connection	J17-18	Bellcore Issue 6	Level I		0.001707	2.00	.0535	0.003414	585853513.81
1653003101	Connection	JP11	Bellcore Issue 6	Level I		0.001707	1.00	.0268	0.001707	585853513.81
1653006101	Connection	JP3	Bellcore Issue 6	Level I		0.003414	1.00	.0535	0.003414	292926756.90
1653005202	Connection	J5,J7	Bellcore Issue 6	Level I		0.005690	2.00	.1785	0.011379	175756054.14
1653013202	Connection	J10	Bellcore Issue 6	Level I		0.014793	1.00	.2320	0.014793	67598482.36
1653925212	Connection	J3	Bellcore Issue 6	Level I		0.028449	1.00	.4462	0.028449	35151210.83
1651203291	Connection	U21	Bellcore Issue 6	Level I		0.018207	1.00	.2856	0.018207	54923766.92
1651572990	Connection	J1	Bellcore Issue 6	Level I		0.081932	1.00	1.2851	0.081932	12205281.54
1652510200	Connection	LAN1-2	Bellcore Issue 6	Level I		0.006828	2.00	.2142	0.013655	146463378.45
1653002101	Connection	J13,JP10	Bellcore Issue 6	Level I		0.001138	2.00	.0357	0.002276	878780270.71
1654606301	Connection	J8	Bellcore Issue 6	Level I		0.005121	1.00	.0803	0.005121	195284504.60
1656304020	Connection	P1	Bellcore Issue 6	Level I		0.002276	1.00	.0357	0.002276	439390135.35
1653002200	Connection	J19	Bellcore Issue 6	Level I		0.002276	1.00	.0357	0.002276	439390135.35
1653120225	Connection	CN1	Bellcore Issue 6	Level I		0.022759	1.00	.3570	0.022759	43939013.54
1653004201	Connection	JP1	Bellcore Issue 6	Level I		0.004552	1.00	.0714	0.004552	219695067.68
1654409103	Connection	J4	Bellcore Issue 6	Level I		0.006259	1.00	.0982	0.006259	159778231.04
1654515302	Connection	J16	Bellcore Issue 6	Level I		0.009672	1.00	.1517	0.009672	103385914.20
1653017201	Connection	J9	Bellcore Issue 6	Level I		0.019345	1.00	.3034	0.019345	51692957.10
1653010203	Connection	J15	Bellcore Issue 6	Level I		0.011379	1.00	.1785	0.011379	87878027.07
1653007204	Connection	JP5	Bellcore Issue 6	Level I		0.007966	1.00	.1249	0.007966	125540038.67
1653022202	Connection	J2,J14	Bellcore Issue 6	Level I		0.025035	2.00	.7854	0.050069	39944557.76
1752311000	Miscellaneous	F1-5	Bellcore Issue 6	Level I		0.030000	5.00	2.3528	0.150000	33333333.33
1759100002	Miscellaneous	SP1	Bellcore Issue 6	Level I		0.150000	1.00	2.3528	0.150000	6666666.67
1750119013	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	14.1170	0.900000	1111111.11



AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

Gene-4312

Thermal Image Analysis Report

Release Date : MAR. 06. 2002

Issue Stamp

QA Manager

QE Manager

Test Engineer

Thermal Image Analysis

I . Model Name: Gene-4312 Rev.A1.0(BIOS Rev 1.0 01/29/2002)

II . Description: AIO SubCompact Board. GX1-300. TV/LCD/LVDS/Dual LAN/Audio.

III . Date: MAR.06, 2002

IV . Measure Site: AAEON QE Dept.

V . Issued by : Linda Sun

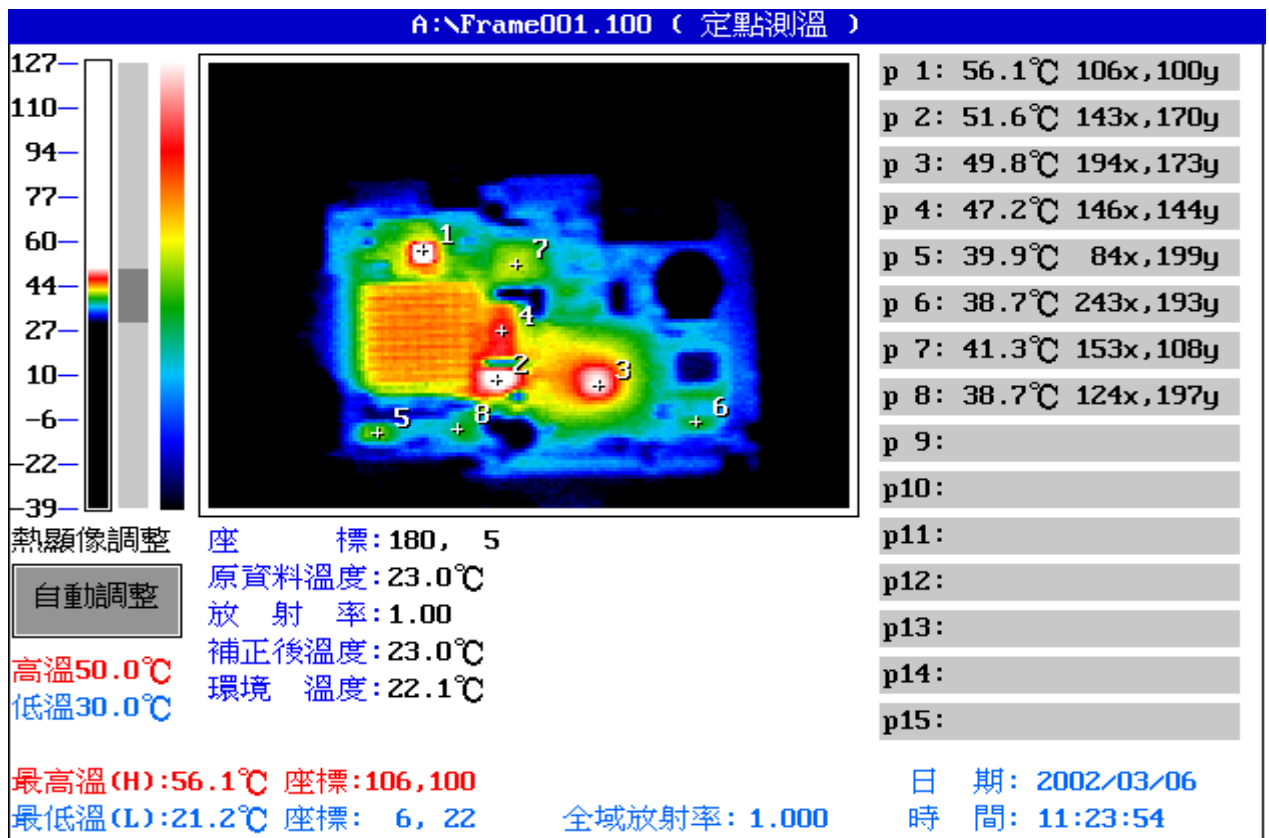
VI.Equipment: TVS-100 series by NIPPON AVIONICS CO., LTD.

VII. Simulation Environment:

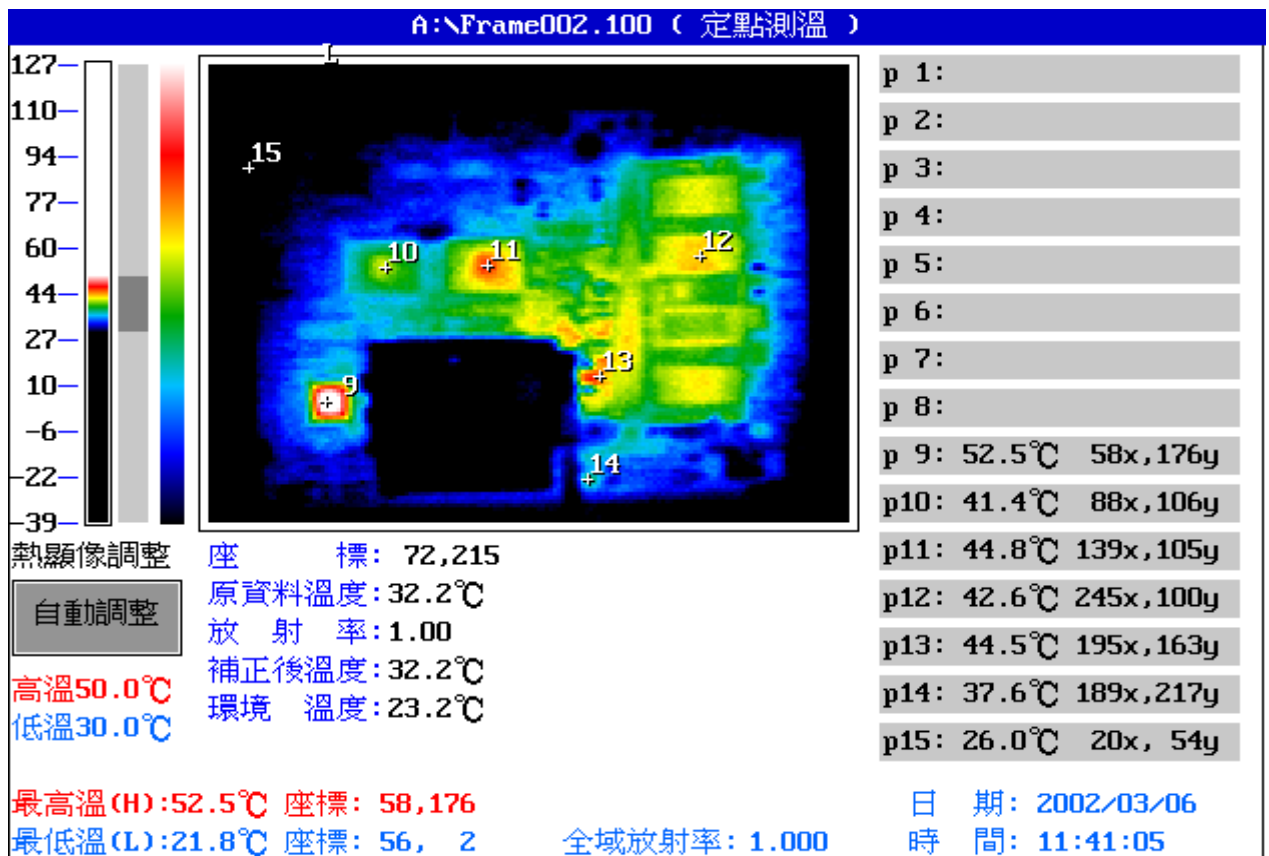
- **Temperature: 26.0 degrees C**
- **CPU: Cyrix Media GX(GX1) with MMX-S CPU at 300MHz**
- **RAM: 128MB (NEC SODRAM, D45128163G5-A80-9JF, PC-100)**
- **Hardware: Fujitsu MPC3043AP-E 4.3GB**
- **Application Software: BurnIn Test V2.2 Pro**
- **Take Picture Time: Power on 30 minutes after**

Temperature Profile Test:

Component Side:



Solder Side:



Point	Position	Describe	Ts	Tm	Note
1	U10	AC'97 Sound Port Codec.AD1819BJST		56.1°C	
2	Q6	REG.LINFINITY.LX8384-00CDD		51.6°C	
3	U2	N.S.CS5530A		49.8°C	
4	U25	ICS.MK1491-06S		47.2°C	
5	L1	COIL.C5052-12A08YDP		39.9°C	
6	U18	Thine.THC63LVDM63A		38.7°C	
7	U3	Winbond.W83977F-A		41.3°C	
8	U13	WINBOND.W83781D		38.7°C	
9	U27	CHRONTEL.CH7003B-T		52.5°C	
10	U30	REALTEK.RTL8139C(L)		41.4°C	
11	U28	REALTEK.RTL8139C(L)		44.8°C	
12	J1	SO DIMM.NEC D45128163G5-A80-9JF		42.6°C	
13		Open space		44.5°C	
14	U6	PHILIPS.74HCT14DT		37.6°C	
15		The Room Temperature		26°C	

1. Operation Temperature (°C):

Ts = Defined by component specification ; Tm = Measured by QE

2. ※ = Ts - (Tm + 60 - 25)