



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

SBC-860 A1.0

Reliability Prediction Report

(MTBF)

Release Date: MAR. 23, 2003

03-23-2003

Issue Stamp

Wayne Chen

A.V.P

Rex Chang

Test Engineer

Reliability Prediction (MTBF)

. Model Name: SBC-860GVA1.0 (Intel Pentium4 2.4GHz CPU)

.Description: Full-size CPU Card.

. Prediction Date: Mar. 19. 2003

. Prediction Site: AAEMON DV Dept.

. Predicted by : Rex Chang

. Equipment: Relx Ver.7.2 Visual Reliability Software

. Simulation Environment:

Temperature: 22.4 degrees C(No temperature rise condition)

Standard: Telcordia (Bellcore) Standard

. 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:

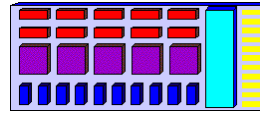
Failure Rate: 9.317819ppm

MTBF: 107,321Hours (about 12.25 years)

X. Prediction Table:

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 03. 20, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

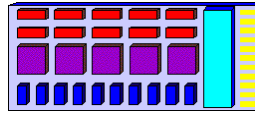


Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
System	System	Bellcore	Method I Case 3	GB, GC - Ground Benign,	100.00	1.00	9.317819	107,321

AAEON Reliability Prediction Report

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Temperature 30.00

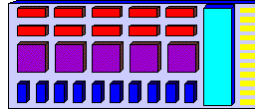


Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315603012	Semiconductor	Q15	Bellcore Issue 6	Level I		0.045844	1.00	.4920	0.045844	21813299.60
1111610210	Capacitor	EC14,EC5,EC8	Bellcore Issue 6	Level I		0.029353	1.00	.3150	0.029353	34067931.95
1750119014	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.450000	1.00	4.8295	0.450000	2222222.22
106B501030	Resistor	RT1-2	Bellcore Issue 6	Level I		0.007357	2.00	.1579	0.014713	135929718.35
1759100002	Miscellaneous	SP1	Bellcore Issue 6	Level I		0.075000	1.00	.8049	0.075000	13333333.33
14S6200200	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.106747	1.00	1.1456	0.106747	9367974.40
1651608990	Connection	U13	Bellcore Issue 6	Level I		0.175826	1.00	1.8870	0.175826	5687435.91
1231232722	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.075000	1.00	.8049	0.075000	13333333.33
1169701700	Capacitor	CC1	Bellcore Issue 6	Level I		0.000371	1.00	.0040	0.000371	2696754140.39
1655420020	Connection	CN1	Bellcore Issue 6	Level I		0.007357	1.00	.0790	0.007357	135929718.35
1653217202	Connection	CN3	Bellcore Issue 6	Level I		0.012506	1.00	.1342	0.012506	79958657.85
1653220208	Connection	CN6,CN9	Bellcore Issue 6	Level I		0.014713	2.00	.3158	0.029427	67964859.17
1655005021	Connection	CN21	Bellcore Issue 6	Level I		0.001839	1.00	.0197	0.001839	543718873.40
1654515302	Connection	CN14	Bellcore Issue 6	Level I		0.005518	1.00	.0592	0.005518	181239624.47
1654606303	Connection	CN19	Bellcore Issue 6	Level I		0.002207	1.00	.0237	0.002207	453099061.16
1655304020	Connection	SN22	Bellcore Issue 6	Level I		0.001471	1.00	.0158	0.001471	679648591.75
1119622193	Capacitor	EC11,EC1-2	Bellcore Issue 6	Level I		0.029224	3.00	.9409	0.087671	34219036.04
1119682193	Capacitor	EC10	Bellcore Issue 6	Level I	13.60	0.193653	1.00	2.0783	0.193653	5163887.01
1653005200	Connection	JP1	Bellcore Issue 6	Level I		0.003678	1.00	.0395	0.003678	271859436.70
1653003201	Connection	JP2*2,JP3-4	Bellcore Issue 6	Level I		0.002207	3.00	.0711	0.006621	453099061.16
1211100660	Inductor	L2	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
1314780501	Integrated Circuit	Q4	Bellcore Issue 6	Level I	14.10	0.110353	1.00	1.1843	0.110353	9061812.16
1652512200	Connection	CN17	Bellcore Issue 6	Level I		0.004414	1.00	.0474	0.004414	226549530.58
1651592490	Connection	DIMM1-2	Bellcore Issue 6	Level I		0.067682	2.00	1.4527	0.135364	14774969.39
1119610190	Capacitor	EC3-4	Bellcore Issue 6	Level I		0.029224	2.00	.6273	0.058447	34219036.04
1111622191	Capacitor	EC12-13	Bellcore Issue 6	Level I		0.017612	2.00	.3780	0.035224	56779886.59
1653003101	Connection	JP6	Bellcore Issue 6	Level I		0.001104	1.00	.0118	0.001104	906198122.33
1211100107	Inductor	L3-5	Bellcore Issue 6	Level I		0.047445	3.00	1.5276	0.142335	21077107.86
1652514201	Connection	CN15	Bellcore Issue 6	Level I		0.005150	1.00	.0553	0.005150	194185311.93
14S8416803	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.026234	1.00	.2815	0.026234	38118760.86
1655003010	Connection	CN2,CN20	Bellcore Issue 6	Level I		0.001104	2.00	.0237	0.002207	906198122.33

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Temperature 30.00

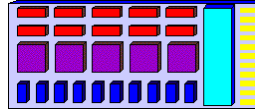


Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1655404020	Connection	CN5	Bellcore Issue 6	Level I		0.036784	1.00	.3948	0.036784	27185943.67
1653006100	Connection	CN11	Bellcore Issue 6	Level I		0.002207	1.00	.0237	0.002207	453099061.16
1655303020	Connection	CN10	Bellcore Issue 6	Level I		0.001104	1.00	.0118	0.001104	906198122.33
1653002101	Connection	JP7	Bellcore Issue 6	Level I		0.000736	1.00	.0079	0.000736	1359297183.49
1653006101	Connection	CN24	Bellcore Issue 6	Level I		0.002207	1.00	.0237	0.002207	453099061.16
1122701680	Capacitor	C20,C36,CB1-9,CB100-CB167,CB1-69-CB109,CB193-234,CB236-CB2-53,CB11-29,CB31-CB35,CB37-99,-R147	Bellcore Issue 6	Level I		0.000825	249.00	2.2043	0.205389	1212335760.74
1214309001	Inductor	CH1-2	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
1653005202	Connection	CN12-13,CN7-8	Bellcore Issue 6	Level I		0.003678	4.00	.1579	0.014713	271859436.70
1189615183	Capacitor	CP10,CP3,CP5,CP7	Bellcore Issue 6	Level I		0.002716	4.00	.1166	0.010864	368200063.66
1189633181	Capacitor	CP13-14,CP2	Bellcore Issue 6	Level I		0.002716	3.00	.0874	0.008148	368200063.66
1124501780	Capacitor	C132,C147,C161-162,C164-165,C-169,C174,C178,C182,C185,C188-1-89,C237,C4,C80	Bellcore Issue 6	Level I		0.000547	16.00	.0940	0.008759	1826769085.82
1129710050	Capacitor	C109-113,C127-129,C133,C168,C-17,C176,C181,C198,C200,C208-21-1,C6	Bellcore Issue 6	Level I		0.001406	20.00	.3017	0.028112	711449301.06
1124510180	Capacitor	C7-14,C119-126,C221-223,C234	Bellcore Issue 6	Level I		0.000547	20.00	.1175	0.010948	1826769085.82
1124433680	Capacitor	C177,C18-19,C186-187,C21-24	Bellcore Issue 6	Level I		0.000547	9.00	.0529	0.004927	1826769085.82
1124510080	Capacitor	C114,C139,C144,C228,C28-29	Bellcore Issue 6	Level I		0.000547	6.00	.0352	0.003284	1826769085.82
1124547180	Capacitor	C142,C203,C206-207,C214,C216--220,C232,C30-31,C38-39	Bellcore Issue 6	Level I		0.000547	15.00	.0881	0.008211	1826769085.82
1121747660	Capacitor	C115,C117,C81	Bellcore Issue 6	Level I		0.001311	3.00	.0422	0.003933	762806343.57
1124522180	Capacitor	C108,C87	Bellcore Issue 6	Level I		0.000547	2.00	.0117	0.001095	1826769085.82
1124527180	Capacitor	C90-91	Bellcore Issue 6	Level I		0.000547	2.00	.0117	0.001095	1826769085.82
1121722650	Capacitor	C171,C225	Bellcore Issue 6	Level I		0.001311	2.00	.0281	0.002622	762806343.57
1124522280	Capacitor	C119,C205	Bellcore Issue 6	Level I		0.000547	2.00	.0117	0.001095	1826769085.82
1124556280	Capacitor	C226	Bellcore Issue 6	Level I		0.000547	1.00	.0059	0.000547	1826769085.82
1189633080	Capacitor	CA15,CA5-6	Bellcore Issue 6	Level I		0.002716	3.00	.0874	0.008148	368200063.66
1653013202	Connection	CN4	Bellcore Issue 6	Level I		0.009564	1.00	.1026	0.009564	104561321.81
1653007204	Connection	CN18	Bellcore Issue 6	Level I		0.005150	1.00	.0553	0.005150	194185311.93

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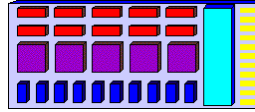


Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1189622183	Capacitor	CP1,CP11,CP15,CP4,CP6	Bellcore Issue 6	Level I		0.002716	5.00	.1457	0.013580	368200063.66
1129747650	Capacitor	C1,C140,C145-146,C148,C192,C1-95,C2-3,C229,C40,C93,C97-98	Bellcore Issue 6	Level I		0.001406	14.00	.2112	0.019678	711449301.06
1124510280	Capacitor	C100-105,C141,C143,C5,C76,C82--84	Bellcore Issue 6	Level I		0.000547	13.00	.0764	0.007116	1826769085.82
1129701080	Capacitor	C107,C116,C130,C15,C163,C191,C-204,C224,C235,C25,C54,C79,C86,-C88-89,C92,C94-96	Bellcore Issue 6	Level I		0.001406	19.00	.2866	0.026706	711449301.06
1129510060	Capacitor	C27,C33-34,C43,C56-57,C74	Bellcore Issue 6	Level I		0.003114	7.00	.2339	0.021797	321148648.70
1129610050	Capacitor	C44-51,C59,C61-63,C66-69	Bellcore Issue 6	Level I		0.003114	16.00	.5347	0.049821	321148648.70
1121647780	Capacitor	C172,C85	Bellcore Issue 6	Level I		0.001311	2.00	.0281	0.002622	762806343.57
1124547080	Capacitor	C118,C131	Bellcore Issue 6	Level I		0.000547	2.00	.0117	0.001095	1826769085.82
1124522080	Capacitor	C173,C179,C193-194,C196-197	Bellcore Issue 6	Level I		0.000547	6.00	.0352	0.003284	1826769085.82
1122733750	Capacitor	C201-202,C212-213,C215,C230-2-31,C233	Bellcore Issue 6	Level I		0.000825	8.00	.0708	0.006599	1212335760.74
1304101340	Semiconductor	D1-2	Bellcore Issue 6	Level I		0.003823	2.00	.0821	0.007645	261592266.64
1305099140	Semiconductor	D5-7	Bellcore Issue 6	Level I		0.045844	3.00	1.4760	0.137531	21813299.60
1300414840	Semiconductor	D8	Bellcore Issue 6	Level I		0.013753	1.00	.1476	0.013753	72710998.66
1301005442	Semiconductor	D10,D21-22	Bellcore Issue 6	Level I		0.013753	3.00	.4428	0.041259	72710998.66
1300581740	Semiconductor	D23	Bellcore Issue 6	Level I		0.013753	1.00	.1476	0.013753	72710998.66
121230805C	Inductor	FB1-8,FB11,FB19-23,FB25-27,FB--30,FB36	Bellcore Issue 6	Level I		0.001249	19.00	.2546	0.023722	800930098.66
121230603D	Inductor	FB10,FB12-13	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
1189610183	Capacitor	CA1-2,CA10,CA16,CA9	Bellcore Issue 6	Level I		0.002716	5.00	.1457	0.013580	368200063.66
1304001340	Semiconductor	D3-4	Bellcore Issue 6	Level I		0.003823	2.00	.0821	0.007645	261592266.64
1301005440	Semiconductor	D9	Bellcore Issue 6	Level I		0.013753	1.00	.1476	0.013753	72710998.66
1300103540	Semiconductor	D11	Bellcore Issue 6	Level I		0.013753	1.00	.1476	0.013753	72710998.66
1212308054	Inductor	FB14-16,FB18,FB31-35,FB37-39,F-B42-43,FB51-52,FB9	Bellcore Issue 6	Level I		0.001249	17.00	.2278	0.021225	800930098.66
105A503300	Resistor	R106-112,R114-117,R73-74	Bellcore Issue 6	Level I		0.001249	13.00	.1742	0.016231	800930098.66
105A527463	Resistor	R256,R77-78,R80-83,R87-88	Bellcore Issue 6	Level I		0.001249	9.00	.1206	0.011237	800930098.66
105A547503	Resistor	R85	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A507503	Resistor	R101-102,R91	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66

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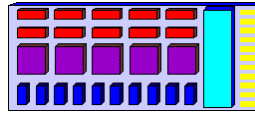
Part Number System
Reference Des
Date 03. 20, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00



Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701033	Resistor	R146,R149,R170-171,R174,R176,R-186,R191,R198,R225,R236-237R2-40,R297,R339,R386,R454,R465,R4-70,R481-482,R514,R84,R93	Bellcore Issue 6	Level I		0.001249	24.00	.3216	0.029965	800930098.66
105A700003	Resistor	C238,R100,R128-130,R139,R141,R-153-154,R156-159,R162,R164,R16-6,R187,R193,R209,R261-262,R266-,R275,R280-281,R301,R303,R327,-R341,R346,R369,R395,R397,R426-,R428,R442,R459,R471,R478,R513-,R515,R528,R538,R544,R90,R99	Bellcore Issue 6	Level I		0.001249	46.00	.6164	0.057433	800930098.66
1651203291	Connection	U8	Bellcore Issue 6	Level I		0.011771	1.00	.1263	0.011771	84956073.97
105A706803	Resistor	R230-231	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A704733	Resistor	R267,R300,R323,R502-503	Bellcore Issue 6	Level I		0.001249	5.00	.0670	0.006243	800930098.66
1315668010	Semiconductor	Q13	Bellcore Issue 6	Level I		0.000000	1.00	.0000	0.000000	.00
1540756080	Resistor	RP1-RP18,RP35,RP40-41	Bellcore Issue 6	Level I		0.003910	21.00	.8813	0.082118	255730457.04
1540722280	Resistor	RP36	Bellcore Issue 6	Level I		0.003910	1.00	.0420	0.003910	255730457.04
1212306035	Inductor	FB40-41,FB44-50,FB53-55	Bellcore Issue 6	Level I		0.001249	12.00	.1608	0.014983	800930098.66
105A505603	Resistor	R399-400	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
1211108270	Inductor	L6	Bellcore Issue 6	Level I		0.047445	1.00	.5092	0.047445	21077107.86
1211104760	Inductor	L8-9	Bellcore Issue 6	Level I		0.047445	2.00	1.0184	0.094890	21077107.86
1315065100	Semiconductor	Q1	Bellcore Issue 6	Level I		0.045844	1.00	.4920	0.045844	21813299.60
105A511503	Resistor	R479,R532	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A512103	Resistor	R496	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A700233	Resistor	R517	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A768003	Resistor	R124	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A703903	Resistor	R126	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A708223	Resistor	R132,R168,R226,R241,R263,R272-,R274,R302,R320-321,RR326,R332-,R359-360,R363,R366,R373-376,R-379,R404,R408-409,R413-414,R41-6,R418,R450-451,R484,R541	Bellcore Issue 6	Level I		0.001249	32.00	.4288	0.039954	800930098.66
105A522603	Resistor	R152	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66

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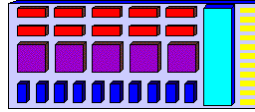
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Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700103	Resistor	R185,R294	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A702723	Resistor	R200-201,R308-309,R324,R329,R-331,R377-378,R419-420	Bellcore Issue 6	Level I		0.001249	11.00	.1474	0.013734	800930098.66
105A702223	Resistor	R212-213,R246-247,R469	Bellcore Issue 6	Level I		0.001249	5.00	.0670	0.006243	800930098.66
105A512033	Resistor	R284	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A503033	Resistor	R286	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A560463	Resistor	R313-314,R316-317	Bellcore Issue 6	Level I		0.001249	4.00	.0536	0.004994	800930098.66
105A703323	Resistor	R342,R348,R398	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A561903	Resistor	R349,R474	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A523233	Resistor	R285	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A556223	Resistor	R289-290	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A568163	Resistor	R318,R367	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A702233	Resistor	R319,R370,R485	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A524963	Resistor	R355,R438	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A515003	Resistor	R358	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A702203	Resistor	R381,R452,R483	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A554903	Resistor	R396,R494	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A530003	Resistor	R183	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A701533	Resistor	R188,R501,R508-509,R536	Bellcore Issue 6	Level I		0.001249	5.00	.0670	0.006243	800930098.66
1059701001	Resistor	R197,R204-205	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A700333	Resistor	R206-207,R518	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
1059700001	Resistor	R214,R264,R389	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A747003	Resistor	R227,R243	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A756033	Resistor	R259-260	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A747033	Resistor	R270-271	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A506823	Resistor	R283,R287	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
1310390412	Semiconductor	Q16-17,Q2,Q20,Q22,Q29,Q9	Bellcore Issue 6	Level I		0.013753	7.00	1.0332	0.096272	72710998.66
1315700211	Semiconductor	Q14,Q18,Q23-24,Q3,Q34,Q36,Q5	Bellcore Issue 6	Level I		0.045844	8.00	3.9360	0.366749	21813299.60
1311390610	Semiconductor	Q6	Bellcore Issue 6	Level I		0.013753	1.00	.1476	0.013753	72710998.66
1315035200	Semiconductor	Q7	Bellcore Issue 6	Level I		0.000000	1.00	.0000	0.000000	.00
1310441110	Semiconductor	Q8	Bellcore Issue 6	Level I		0.013753	1.00	.1476	0.013753	72710998.66

AAEON Reliability Prediction Report

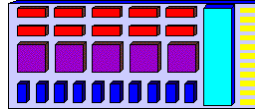
Part Number System
Reference Des
Date 03. 20, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00



Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315063210	Semiconductor	Q11	Bellcore Issue 6	Level I		0.045844	1.00	.4920	0.045844	21813299.60
131571A310	Semiconductor	Q12	Bellcore Issue 6	Level I	10.10	0.060156	1.00	.6456	0.060156	16623319.10
1315603012	Semiconductor	Q15	Bellcore Issue 6	Level I	8.90	0.058299	1.00	.6257	0.058299	17152912.69
1314108312	Integrated Circuit	Q33	Bellcore Issue 6	Level I	9.80	0.083267	1.00	.8936	0.083267	12009569.77
1540710080	Resistor	RP19-34	Bellcore Issue 6	Level I		0.003910	16.00	.6715	0.062566	255730457.04
1540782280	Resistor	RP37-39,RP42,RP44,RP66-67,RP70	Bellcore Issue 6	Level I		0.003910	8.00	.3357	0.031283	255730457.04
1540722084	Resistor	RP43,RP69	Bellcore Issue 6	Level I		0.003910	2.00	.0839	0.007821	255730457.04
105A537463	Resistor	R405,R439-440	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A540263	Resistor	R415	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A513703	Resistor	R441	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A522663	Resistor	R480	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A556003	Resistor	R500,R531	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
1212308052	Inductor	FB24,FB28-29	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
1752311000	Miscellaneous	F1-4	Bellcore Issue 6	Level I		0.015000	4.00	.6439	0.060000	66666666.67
1653302150	Connection	HS1-2	Bellcore Issue 6	Level I		0.000736	2.00	.0158	0.001471	1359297183.49
1211103361	Inductor	L1	Bellcore Issue 6	Level I		0.047445	1.00	.5092	0.047445	21077107.86
1211101005	Inductor	L7	Bellcore Issue 6	Level I		0.047445	1.00	.5092	0.047445	21077107.86
1211106870	Inductor	L10	Bellcore Issue 6	Level I		0.047445	1.00	.5092	0.047445	21077107.86
1211100109	Inductor	L11	Bellcore Issue 6	Level I		0.047445	1.00	.5092	0.047445	21077107.86
105A704703	Resistor	R507	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
1231325050	Miscellaneous	Y3,Y5	Bellcore Issue 6	Level I		0.075000	2.00	1.6098	0.150000	13333333.33
1231324551	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.075000	1.00	.8049	0.075000	13333333.33
105A715003	Resistor	R103,R127,R179	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A702703	Resistor	R104	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
105A501033	Resistor	R105,R150,R288,R291-293,R304--306	Bellcore Issue 6	Level I		0.001249	9.00	.1206	0.011237	800930098.66
105A710053	Resistor	R113,R223,R371	Bellcore Issue 6	Level I		0.007491	3.00	.2412	0.022474	133488349.78
105A706203	Resistor	R122,R368,R417	Bellcore Issue 6	Level I		0.001249	3.00	.0402	0.003746	800930098.66
105A707503	Resistor	R125,R475,R497-499	Bellcore Issue 6	Level I		0.001249	5.00	.0670	0.006243	800930098.66
105A733033	Resistor	R131,R516	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66
105A705133	Resistor	R134,R136	Bellcore Issue 6	Level I		0.001249	2.00	.0268	0.002497	800930098.66

AAEON Reliability Prediction Report



Part Number System
Reference Des
Date 03. 20, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

Description Top-level assembly
File Name SBC-860GV
Time 11:32 AM
Failure Rate 9.317819
MTBF 107,321

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A510003	Resistor	R151,R155,R189,R315,R495	Bellcore Issue 6	Level I		0.001249	5.00	.0670	0.006243	800930098.66
105A505103	Resistor	R178,R181-182,R184,R94-98	Bellcore Issue 6	Level I		0.001249	9.00	.1206	0.011237	800930098.66
105A515433	Resistor	R537	Bellcore Issue 6	Level I		0.001249	1.00	.0134	0.001249	800930098.66
1315993610	Semiconductor	U1	Bellcore Issue 6	Level I		0.091687	1.00	.9840	0.091687	10906649.80
14S5900600	Integrated Circuit	U3	Bellcore Issue 6	Level I	11.50	0.066641	1.00	.7152	0.066641	15005817.06
1315970110	Semiconductor	U5	Bellcore Issue 6	Level I		0.091687	1.00	.9840	0.091687	10906649.80
14S3020101	Integrated Circuit	U6	Bellcore Issue 6	Level I	15.00	0.116941	1.00	1.2550	0.116941	8551323.97
14S4871200	Integrated Circuit	U9	Bellcore Issue 6	Level I	7.60	0.039990	1.00	.4292	0.039990	25006398.70
14S6334610	Integrated Circuit	U11,U18	Bellcore Issue 6	Level I		0.021923	2.00	.4706	0.043846	45614435.26
14S4255100	Integrated Circuit	U12	Bellcore Issue 6	Level I	8.70	0.042433	1.00	.4554	0.042433	23566289.50
14S4888800	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.026234	1.00	.2815	0.026234	38118760.86
14S3000201	Inductor	U17	Bellcore Issue 6	Level I		0.074913	1.00	.8040	0.074913	13348834.98
14S3020011	Integrated Circuit	U20	Bellcore Issue 6	Level I	12.00	0.096265	1.00	1.0331	0.096265	10387996.46
14S9660100	Integrated Circuit	U22	Bellcore Issue 6	Level I	20.20	0.053466	1.00	.5738	0.053466	18703624.48
14S3128420	Integrated Circuit	U24	Bellcore Issue 6	Level I		0.042535	1.00	.4565	0.042535	23510284.61
14S4021300	Integrated Circuit	U25,U26	Bellcore Issue 6	Level I		0.042535	2.00	.9130	0.085069	23510284.61
14S4048501	Integrated Circuit	U28,U29	Bellcore Issue 6	Level I		0.042535	2.00	.9130	0.085069	23510284.61
14S4070600	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.042535	1.00	.4565	0.042535	23510284.61
14S5812500	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.025244	1.00	.2709	0.025244	39613193.55
14S1488000	Integrated Circuit	U38	Bellcore Issue 6	Level I	6.80	0.068097	1.00	.7308	0.068097	14684950.07
1231314350	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.075000	1.00	.8049	0.075000	13333333.33
14S4650100	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.042535	1.00	.4565	0.042535	23510284.61
14S3850000	Integrated Circuit	U4	Bellcore Issue 6	Level I		0.042535	1.00	.4565	0.042535	23510284.61
1314012510	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.042535	1.00	.4565	0.042535	23510284.61
14S4284504	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.026234	1.00	.2815	0.026234	38118760.86
14S4280105	Integrated Circuit	U14	Bellcore Issue 6	Level I	11.00	0.047972	1.00	.5148	0.047972	20845525.81
14S4256200	Inductor	U16	Bellcore Issue 6	Level I	10.50	0.090802	1.00	.9745	0.090802	11013025.43
14S4630100	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.042535	1.00	.4565	0.042535	23510284.61
14S9660200	Integrated Circuit	U23	Bellcore Issue 6	Level I	23.90	0.067124	1.00	.7204	0.067124	14897740.00
14S5A01400	Integrated Circuit	U27,U32-33,U37	Bellcore Issue 6	Level I		0.042535	4.00	1.8259	0.170138	23510284.61
14S5A38400	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.026234	1.00	.2815	0.026234	38118760.86

