

FSB-868G Reliability Prediction Report (MTBF)

Report NO : 08I070001

3-17-2008

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** FSB-868G Ver.B

II . **Prediction Date:** Mar. 17,2008

III . **Prediction Site:** AAEON Q.E. Dept.

IV . **Predicted by :** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

VI. **Simulation Environment:**

- Temperature: 23.2 degree C
- Standard: Telcordia (Bellcore) Standard

VII. **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.

VIII. **Prediction Result:**

- FSB-868G Ver. B
 - Failure Rate: 14.651309 ppm
 - MTBF: 68,253 Hours

AAEON Reliability Prediction Report

Part Number 9697868G23-DIP
Reference Des
Date 03. 17, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.20



Description Top-level assembly
File Name FSB-868G-B.RPJ
Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
FSB-868G Ver.B	9697868G23-DIP	Belcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	14.651309	68,253

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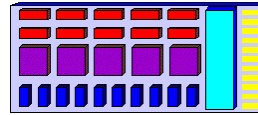


Description Top-level assembly
File Name FSB-868G-B.RPJ
Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1231232722	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.0238	0.150000	6666666.67
1750119011	Miscellaneous	XBT1	Bellcore Issue 6	Level I		0.900000	1.00	6.1428	0.900000	1111111.11
1750220323	Connection	BT1	Bellcore Issue 6	Level I		0.001035	1.00	.0071	0.001035	965999943.69
1653002100	Connection	CN4,CN7,JP2	Bellcore Issue 6	Level I		0.001035	3.00	.0212	0.003106	965999943.69
1653003100	Connection	JP3	Bellcore Issue 6	Level I		0.001553	1.00	.0106	0.001553	643999962.46
1653004200	Connection	FP1,FP2	Bellcore Issue 6	Level I		0.004141	2.00	.0565	0.008282	241499985.92
1653005201	Connection	USB1-USB3	Bellcore Issue 6	Level I		0.005176	3.00	.1060	0.015528	193199988.74
1653300100	Connection	XFP2	Bellcore Issue 6	Level I		0.001035	1.00	.0071	0.001035	965999943.69
1653300101	Connection	XJP3	Bellcore Issue 6	Level I		0.001035	1.00	.0071	0.001035	965999943.69
1653302150	Connection	H1,H2	Bellcore Issue 6	Level I		0.001035	2.00	.0141	0.002070	965999943.69
1654606200	Connection	CN8	Bellcore Issue 6	Level I		0.003106	1.00	.0212	0.003106	321999981.23
1655005021	Connection	CN6	Bellcore Issue 6	Level I		0.002588	1.00	.0177	0.002588	386399977.48
1653006101	Connection	IR1	Bellcore Issue 6	Level I		0.003106	1.00	.0212	0.003106	321999981.23
1653213203	Connection	LPT1	Bellcore Issue 6	Level I		0.013458	1.00	.0919	0.013458	74307687.98
1653205203	Connection	COM1,COM2	Bellcore Issue 6	Level I		0.005176	2.00	.0707	0.010352	193199988.74
1653217205	Connection	FDD1	Bellcore Issue 6	Level I		0.017598	1.00	.1201	0.017598	56823526.10
1653220208	Connection	IDE1	Bellcore Issue 6	Level I		0.020704	1.00	.1413	0.020704	48299997.18
1655404020	Connection	ATX2	Bellcore Issue 6	Level I		0.002070	1.00	.0141	0.002070	482999971.85
1655003022	Connection	CN5	Bellcore Issue 6	Level I		0.001553	1.00	.0106	0.001553	643999962.46
1654804100	Connection	USB4	Bellcore Issue 6	Level I		0.002070	1.00	.0141	0.002070	482999971.85
1653005205	Connection	CN3	Bellcore Issue 6	Level I		0.005176	1.00	.0353	0.005176	193199988.74
1119612291	Capacitor	C65	Bellcore Issue 6	Level I		0.064700	15.00	6.6240	0.970497	15455999.10
1654515308	Connection	VGA1	Bellcore Issue 6	Level I		0.007764	1.00	.0530	0.007764	128799992.49
1119647191	Capacitor	C63,C72	Bellcore Issue 6	Level I		0.064700	2.00	.8832	0.129400	15455999.10
1169656190	Capacitor	C64	Bellcore Issue 6	Level I		0.005401	1.00	.0369	0.005401	185138735.20
1655004014	Connection	FAN1	Bellcore Issue 6	Level I		0.002070	1.00	.0141	0.002070	482999971.85
1655420023	Connection	ATX1	Bellcore Issue 6	Level I		0.012422	1.00	.0848	0.012422	80499995.31
1211101161	Inductor	L1,L12	Bellcore Issue 6	Level I		0.083169	2.00	1.1353	0.166337	12023773.24
1111622102	Capacitor	C75	Bellcore Issue 6	Level I		0.064700	6.00	2.6496	0.388199	15455999.10
16515C0495	Connection	DIMM1,DIMM2	Bellcore Issue 6	Level I		0.124224	2.00	1.6957	0.248447	8049999.53
1654907002	Connection	SATA2,SATA4	Bellcore Issue 6	Level I		0.003623	2.00	.0495	0.007246	275999983.91

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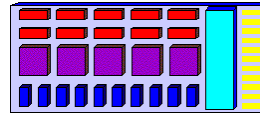


Description Top-level assembly
File Name FSB-868G-B.RPJ
Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A708223	Resistor	R173,R196-R197,R199,R203,R204-,R309,R312,RF,R137,R166,R171,R-172,R174,R176-R179,R181,R182,-R186,R188,R189,R194,R198	Bellcore Issue 6	Level I		0.002189	25.00	.3735	0.054716	456903383.18
105A708223	Resistor	R342-R343,R345,R364,R371-R375-,R430,R431,R434,R22,R294,R297,-R300,R301,R305-R308,R310,R311-,R315,R318,R323,R325-R336	Bellcore Issue 6	Level I		0.002189	38.00	.5677	0.083169	456903383.18
105A708223	Resistor	R339,R347,R349,R351,R355,R41,-R442,R455,R457,R613,R614,R634-,R635,R96,R98	Bellcore Issue 6	Level I		0.002189	15.00	.2241	0.032830	456903383.18
105A700133	Resistor	R3,R340,R350,R354,R419,R421,R-464,R562,R583,R584	Bellcore Issue 6	Level I		0.002189	10.00	.1494	0.021886	456903383.18
105A733003	Resistor	R1,R2,R216,R23,R590,R630-R633-,R717	Bellcore Issue 6	Level I		0.002189	10.00	.1494	0.021886	456903383.18
105A733033	Resistor	R303	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A500133	Resistor	R426,R106,R142,R148,R213,R284-,R321,R362,R413,R420,R436,R438-,R444,R445,R494,R593	Bellcore Issue 6	Level I		0.002189	16.00	.2390	0.035018	456903383.18
105A500133	Resistor	R427,R428	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
105A501533	Resistor	R363	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A502033	Resistor	R195,R214,R415	Bellcore Issue 6	Level I		0.002189	3.00	.0448	0.006566	456903383.18
105A502423	Resistor	R108	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A502733	Resistor	R125,R377,R391	Bellcore Issue 6	Level I		0.002189	3.00	.0448	0.006566	456903383.18
105A510003	Resistor	R30,R33,R456,R458,R602	Bellcore Issue 6	Level I		0.002189	5.00	.0747	0.010943	456903383.18
105A512033	Resistor	R35	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A510053	Resistor	R163,R208,R222,R226	Bellcore Issue 6	Level I		0.013132	4.00	.3585	0.052528	76150563.86
105A510033	Resistor	R153,R215,R346,R88	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
105A515003	Resistor	R233,R242,R254-R256,R261,R267-,R470-R472	Bellcore Issue 6	Level I		0.002189	10.00	.1494	0.021886	456903383.18
105A549963	Resistor	R238-R240,R248-R251,R388-R390-,R392-R399,R403,R404,R407-R409-,R411-R412,R416,R417	Bellcore Issue 6	Level I		0.002189	28.00	.4183	0.061282	456903383.18
105A705123	Resistor	R51	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A720003	Resistor	R404	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A756033	Resistor	R258,R260,R265,R275	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
105A502233	Resistor	R157,R48	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18

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Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1212306030	Inductor	PB19,PB2-PB4,L13,L14,L23,PB1,P-B15,PB20,PB7,PB9	Bellcore Issue 6	Level I		0.002189	12.00	.1793	0.026264	456903383.18
1212306031	Inductor	FB1,FB2	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
1212308054	Inductor	PB10,PB11,PB8,PB12,PB13,PB18,-PB5,PB6	Bellcore Issue 6	Level I		0.002189	8.00	.1195	0.017509	456903383.18
1121501690	Capacitor	M182-M184,M186-M190,M192,M19-3,M195-M199,M203-M206,M208-M-216,M22-M29,M39-M46,M57-M60	Bellcore Issue 6	Level I		0.004377	48.00	1.4341	0.210110	228451691.59
1121610060	Capacitor	CA2,CA56-CA58	Bellcore Issue 6	Level I		0.004377	4.00	.1195	0.017509	228451691.59
1121501680	Capacitor	M12,M15,M170,M171,M3,M33-M35- .M38,M47,M49,M5,M52,C144,C161- .C74,C76,C80,C83,C85,C87,M1,M1- 0,M100-M140,M11,M13,M14	Bellcore Issue 6	Level I		0.004377	68.00	2.0316	0.297656	228451691.59
1121501680	Capacitor	M142-M157,M159-M169,M16,M17,- M172-M181,M18,M185,M19,M191,- M2,M20,M200,M202,M207,M21,M2- 17-M224,M30-M32,M36,M37,M4	Bellcore Issue 6	Level I		0.004377	63.00	1.8822	0.275769	228451691.59
1121501680	Capacitor	M50,M51,M53-M56,M6,M61-M99,M7	Bellcore Issue 6	Level I		0.004377	47.00	1.4042	0.205733	228451691.59
1121722650	Capacitor	C184,C186,C190,C192,C202,C50	Bellcore Issue 6	Level I		0.004377	6.00	.1793	0.026264	228451691.59
1121733380	Capacitor	C217	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
1121747660	Capacitor	CA1,CA55	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
1124501780	Capacitor	N1,N10-N36,N2,N4,N6,N7,N3,N5,N- 8,N9	Bellcore Issue 6	Level I		0.004377	36.00	1.0756	0.157583	228451691.59
1124515180	Capacitor	C116,C117	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
1124510280	Capacitor	C125,C105-C108,C119-C124,C126- .C15,C176,C21,C226,C228,C229,C- 46-C48	Bellcore Issue 6	Level I		0.004377	21.00	.6274	0.091923	228451691.59
1124522180	Capacitor	C126,C73,C199,C209,C210,C213,- C29	Bellcore Issue 6	Level I		0.004377	5.00	.1494	0.021886	228451691.59
1124522280	Capacitor	C155,C150,C68	Bellcore Issue 6	Level I		0.004377	3.00	.0896	0.013132	228451691.59
1124527180	Capacitor	C60	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
1124547080	Capacitor	C100-C102,C129,C133,C99	Bellcore Issue 6	Level I		0.004377	6.00	.1793	0.026264	228451691.59
1124547180	Capacitor	C233	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
1129747650	Capacitor	CA15,CA17,CA19,CA27-CA30,CA3- 3,CA34,C130,C143,C70,CA16,CA2- 6,CA32,CA36,CA37,CA44,CA45	Bellcore Issue 6	Level I		0.004377	19.00	.5677	0.083169	228451691.59
1540701380	Resistor	RN4	Bellcore Issue 6	Level I		0.005750	1.00	.0392	0.005750	173923615.11

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MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1300283540	Semiconductor	DD1	Bellcore Issue 6	Level I		0.022670	1.00	.1547	0.022670	44111425.01
1301005440	Semiconductor	DD4,DD3,DD5,DD6	Bellcore Issue 6	Level I		0.022670	4.00	.6189	0.090679	44111425.01
1540782280	Resistor	RN14,RN16-RN20,RN22,RN24,RN1-RN2,RN3	Bellcore Issue 6	Level I		0.005750	11.00	.4317	0.063246	173923615.11
1314111713	Integrated Circuit	Q35	Bellcore Issue 6	Level I	13.50	0.135275	1.00	.9233	0.135275	7392359.48
1651203291	Connection	U18	Bellcore Issue 6	Level I		0.016563	1.00	.1130	0.016563	60374996.48
14S4048501	Integrated Circuit	U36,U39	Bellcore Issue 6	Level I		0.052000	2.00	.7098	0.104000	19230812.90
1540747282	Resistor	RN12,RN13,RN5	Bellcore Issue 6	Level I		0.005750	3.00	.1177	0.017249	173923615.11
14S4021310	Integrated Circuit	U17,U21	Bellcore Issue 6	Level I		0.052000	2.00	.7098	0.104000	19230812.90
1315700211	Semiconductor	Q10,Q27,Q29	Bellcore Issue 6	Level I		0.075566	3.00	1.5473	0.226699	13233427.50
14S5A01400	Integrated Circuit	U38	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
105A520003	Resistor	R151,R446	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
14S5A01430	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
105A530003	Resistor	R425	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A505633	Resistor	R160	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A506203	Resistor	R170,R357,R547,R55,R550,R554,-R556,R557,R560,R563,R565,R57,-R572,R574,R58,R59,R62,R64,R65,-R70,R73,R76,R78,R84-R86,R93	Bellcore Issue 6	Level I		0.002189	27.00	.4033	0.059093	456903383.18
1211104760	Inductor	PB14	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
105A560463	Resistor	R354,R54,R545,R546,R63,R68,R75-R79,R95	Bellcore Issue 6	Level I		0.002189	9.00	.1344	0.019698	456903383.18
105A530103	Resistor	R94	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A568003	Resistor	R154,R31,R34,R37,R40,R43,R46,-R504,R573,R575	Bellcore Issue 6	Level I		0.002189	10.00	.1494	0.021886	456903383.18
105A575003	Resistor	R21,R24,R579,R581	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
105A516213	Resistor	R380	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A516513	Resistor	R143	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
1124468080	Capacitor	C13,C14,C221,C222	Bellcore Issue 6	Level I		0.004377	4.00	.1195	0.017509	228451691.59
1124433680	Capacitor	C109-C114	Bellcore Issue 6	Level I		0.004377	6.00	.1793	0.026264	228451691.59
1124433080	Capacitor	C193,C215	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
1124422080	Capacitor	C115,C118,C180,C182,C20,C66,C-67,C95-C98	Bellcore Issue 6	Level I		0.004377	11.00	.3286	0.048150	228451691.59
105A512403	Resistor	R500,R538,R541,R543,R74	Bellcore Issue 6	Level I		0.002189	5.00	.0747	0.010943	456903383.18

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124420080	Capacitor	C79,C81	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
1124415080	Capacitor	C162,C164-C169,C172-C175,C177-C178	Bellcore Issue 6	Level I		0.004377	13.00	.3884	0.056905	228451691.59
1122722780	Capacitor	C103	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
1310390411	Semiconductor	Q14,Q1,Q19,Q20,Q46	Bellcore Issue 6	Level I		0.022670	5.00	.7736	0.113349	44111425.01
105A503300	Resistor	R109,R112-R117,R120,R122,R123-R126,R129-R132,R134-R136,R138-R141,R144-R147,R149,R150,R152-R200-R202,R273,R298,R299	Bellcore Issue 6	Level I		0.002189	35.00	.5228	0.076603	456903383.18
105A503309	Resistor	R465,R467,R469,R473,R475-R477-R479-R481,R483-R492,R496-R499-R502,R507-R510,R512-R514,R517-R521,R524,R526,R531	Bellcore Issue 6	Level I		0.002189	40.00	.5975	0.087546	456903383.18
105A504723	Resistor	R11,R19,R192,R20,R211,R218,R2-23,R225,R227-R229,R269-R272,R-277,R279,R281,R286,R290,R291,R-293,R320,R383,R385,R386	Bellcore Issue 6	Level I		0.002189	26.00	.3884	0.056905	456903383.18
105A504723	Resistor	R410,R429,R432,R433,R441,R447-R448,R478,R580,R615-R629,R87,-R89,R90	Bellcore Issue 6	Level I		0.002189	27.00	.4033	0.059093	456903383.18
105A504733	Resistor	R190,R280,R282	Bellcore Issue 6	Level I		0.002189	3.00	.0448	0.006566	456903383.18
1300414843	Semiconductor	D1-D3	Bellcore Issue 6	Level I		0.022670	3.00	.4642	0.068010	44111425.01
105A501003	Resistor	R205,R506,R535,R536,R540,R69	Bellcore Issue 6	Level I		0.002189	6.00	.0896	0.013132	456903383.18
1174518180	Capacitor	CP1-CP4	Bellcore Issue 6	Level I		0.005401	4.00	.1475	0.021605	185138735.20
105A513003	Resistor	R50,R569,R571	Bellcore Issue 6	Level I		0.002189	3.00	.0448	0.006566	456903383.18
14S9070800	Integrated Circuit	U25,U28	Bellcore Issue 6	Level I		0.035327	2.00	.4822	0.070655	28306621.87
105A702263	Resistor	R29,R592,R594,R599	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
1315970110	Semiconductor	U33,U31,U32,U34	Bellcore Issue 6	Level I		0.075566	4.00	2.0631	0.302265	13233427.50
14S6340801	Integrated Circuit	U24,U35	Bellcore Issue 6	Level I		0.026801	2.00	.3659	0.053603	37311444.10
105A547503	Resistor	R133	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A524963	Resistor	R193,R359,R461,R80	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
121230603C	Inductor	FB3-FB6	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
11A4416080	Capacitor	C93,C94	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
11C4510380	Capacitor	C203	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
11C4515380	Capacitor	C218	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59

AAEON Reliability Prediction Report

Part Number 9697868G23-DIP
Reference Des
Date 03. 17, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.20



Description Top-level assembly
File Name FSB-868G-B.RPJ
Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
11E9501091	Capacitor	C171,C189,C191,C194,C195,C49,-C51,C52,C54,-C57	Bellcore Issue 6	Level I		0.004377	12.00	.3585	0.052528	228451691.59
1211000180	Inductor	L15	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
1211100109	Inductor	PB16,PB17	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
11E9647680	Capacitor	C58,CA3,CA39,CA46,CA47,CA51,-CA53	Bellcore Issue 6	Level I		0.004377	7.00	.2091	0.030641	228451691.59
1189647180	Capacitor	C10,C11,C18,C200,C22,C223,C35,-C43-C45,C8,C9	Bellcore Issue 6	Level I		0.004377	12.00	.3585	0.052528	228451691.59
1189647180	Capacitor	C224	Bellcore Issue 6	Level I	13.50	0.005655	1.00	.0386	0.005655	176838242.96
1189922180	Capacitor	C156,C188,C196	Bellcore Issue 6	Level I		0.004377	3.00	.0896	0.013132	228451691.59
14S5A12503	Integrated Circuit	U40-U42	Bellcore Issue 6	Level I		0.035327	3.00	.7234	0.105982	28306621.87
105A551103	Resistor	R379,R495	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
14S2303700	Integrated Circuit	U45	Bellcore Issue 6	Level I	15.10	0.150675	1.00	1.0284	0.150675	6636810.52
14S2303700	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
14S2303700	Integrated Circuit	U47	Bellcore Issue 6	Level I	16.10	0.161087	1.00	1.0995	0.161087	6207808.53
121230603D	Inductor	FB7,FB10-FB13,FB8,FB9	Bellcore Issue 6	Level I		0.002189	7.00	.1046	0.015321	456903383.18
1311006910	Semiconductor	Q24,Q25,Q26,Q28	Bellcore Issue 6	Level I		0.022670	4.00	.6189	0.090679	44111425.01
1311390610	Semiconductor	Q16	Bellcore Issue 6	Level I		0.022670	1.00	.1547	0.022670	44111425.01
14S9660100	Integrated Circuit	U3	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
14S9660100	Integrated Circuit	U50	Bellcore Issue 6	Level I	20.00	0.208204	1.00	1.4211	0.208204	4802971.35
14S9660100	Integrated Circuit	U2	Bellcore Issue 6	Level I	9.80	0.104969	1.00	.7164	0.104969	9526603.44
14S9660100	Integrated Circuit	U1	Bellcore Issue 6	Level I	12.80	0.128997	1.00	.8804	0.128997	7752127.40
1129610051	Capacitor	C127,C128,C135,CA10-CA14,CA18-,CA31,CA35,CA38,CA4,CA40-CA43-,CA48-CA50,CA5,CA52,CA54,CA6--CA9	Bellcore Issue 6	Level I		0.004377	27.00	.8067	0.118187	228451691.59
1129610080	Capacitor	C132,C134,M158,M48	Bellcore Issue 6	Level I		0.004377	4.00	.1195	0.017509	228451691.59
1129510060	Capacitor	CA21,CA22	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
105A522663	Resistor	R206	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A524333	Resistor	R38	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A524033	Resistor	R191	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
1310390410	Semiconductor	Q12,Q13,Q38-Q40	Bellcore Issue 6	Level I		0.022670	5.00	.7736	0.113349	44111425.01
1310222210	Semiconductor	Q41,Q43-Q45	Bellcore Issue 6	Level I		0.022670	4.00	.6189	0.090679	44111425.01

AAEON Reliability Prediction Report

Part Number 9697868G23-DIP
Reference Des
Date 03. 17, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.20



Description Top-level assembly
File Name FSB-868G-B.RPJ
Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1305099140	Semiconductor	Q15,Q17	Bellcore Issue 6	Level I		0.075566	2.00	1.0315	0.151132	13233427.50
1304101340	Semiconductor	LED1,LED2	Bellcore Issue 6	Level I		0.004132	2.00	.0564	0.008265	241995391.14
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.025880	1.00	.1766	0.025880	38639997.75
1121701080	Capacitor	C145,C151,C104,C12,C131,C139,- C140,C147-C149,C157-C159,C16,- C163,C181,C183,C211,C212,C214- C216,C219,C225,C227,C230	Bellcore Issue 6	Level I		0.004377	25.00	.7469	0.109432	228451691.59
1121701080	Capacitor	C5,C59,C6,C61,C231,C232,C36,C- 69,C84,C91,C92	Bellcore Issue 6	Level I		0.004377	11.00	.3286	0.048150	228451691.59
1189922180	Capacitor	C154,C19	Bellcore Issue 6	Level I		0.004377	2.00	.0598	0.008755	228451691.59
1181633112	Capacitor	C1-C4,C7	Bellcore Issue 6	Level I		0.004377	5.00	.1494	0.021886	228451691.59
1189610189	Capacitor	C141,C142,C187,C71,C73,CA20,C- A23-CA25	Bellcore Issue 6	Level I		0.004377	9.00	.2689	0.039396	228451691.59
1189633080	Capacitor	C206	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
1189633181	Capacitor	C179,C185,C196,C90,EC1,EC5	Bellcore Issue 6	Level I		0.004377	6.00	.1793	0.026264	228451691.59
1129722060	Capacitor	C23-C28,C30-C34,C350-C355,C37- -C42	Bellcore Issue 6	Level I		0.004377	23.00	.6872	0.100678	228451691.59
1129722680	Capacitor	C89	Bellcore Issue 6	Level I		0.004377	1.00	.0299	0.004377	228451691.59
106B701032	Resistor	RT2-RT4	Bellcore Issue 6	Level I		0.010352	3.00	.2120	0.031056	96599994.37
105A525503	Resistor	R97	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A527423	Resistor	R15	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A527413	Resistor	R551	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A539263	Resistor	R101,R102	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
1301003240	Semiconductor	D4	Bellcore Issue 6	Level I		0.022670	1.00	.1547	0.022670	44111425.01
14S2200900	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
14S9080900	Integrated Circuit	U12,U7	Bellcore Issue 6	Level I		0.052000	2.00	.7098	0.104000	19230812.90
1214309002	Inductor	L16-L22	Bellcore Issue 6	Level I		0.002189	.00	.0000	0.000000	.00
14S4819000	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
12313012A0	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.0238	0.150000	6666666.67
1314917313	Integrated Circuit	U46	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
175910000A	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	1.0238	0.150000	6666666.67
1315231310	Semiconductor	Q30	Bellcore Issue 6	Level I		0.075566	1.00	.5158	0.075566	13233427.50
1315344310	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90

AAEON Reliability Prediction Report

Part Number 9697868G23-DIP
Reference Des
Date 03. 17, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.20



Description Top-level assembly
File Name FSB-868G-B.RPJ
Time 10:23 上午
Failure Rate 14.651309
MTBF 68,253

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1652508212	Connection	LAN1,LAN2	Bellcore Issue 6	Level I		0.004141	2.00	.0565	0.008282	241499985.92
1615612992	Connection	CPU1	Bellcore Issue 6	Level I		0.001035	1.00	.0071	0.001035	965999943.69
105A580663	Resistor	R453,R454	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
14S4410100	Integrated Circuit	U13	Bellcore Issue 6	Level I	26.50	0.314933	1.00	2.1495	0.314933	3175274.16
14S4081110	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
14S4632600	Integrated Circuit	U4	Bellcore Issue 6	Level I		0.052000	1.00	.3549	0.052000	19230812.90
14S4650601	Integrated Circuit	U20	Bellcore Issue 6	Level I	14.40	0.079980	1.00	.5459	0.079980	12503199.35
14S4803601	Integrated Circuit	U26,U27	Bellcore Issue 6	Level I		0.052000	2.00	.7098	0.104000	19230812.90
14S4362703	Integrated Circuit	U43	Bellcore Issue 6	Level I		0.035327	.00	.0000	0.000000	.00
1315041210	Semiconductor	Q22,Q23	Bellcore Issue 6	Level I		0.151132	2.00	2.0631	0.302265	6616713.75
1314919410	Integrated Circuit	U44,U49	Bellcore Issue 6	Level I		0.052000	2.00	.7098	0.104000	19230812.90
14S4888801	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.035327	1.00	.2411	0.035327	28306621.87
123131435B	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	2.00	2.0476	0.300000	6666666.67
1231325058	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.150000	1.00	1.0238	0.150000	6666666.67
1231325058	Miscellaneous	Y5	Bellcore Issue 6	Level I		0.150000	1.00	1.0238	0.150000	6666666.67
105A584563	Resistor	R92	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A505623	Resistor	R110,R111	Bellcore Issue 6	Level I		0.002189	2.00	.0299	0.004377	456903383.18
105A505173	Resistor	R100,R103,R99	Bellcore Issue 6	Level I		0.002189	3.00	.0448	0.006566	456903383.18
105A516963	Resistor	R91	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A521003	Resistor	R501,R537,R539,R542,R72	Bellcore Issue 6	Level I		0.002189	5.00	.0747	0.010943	456903383.18
105A522003	Resistor	R128	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A522123	Resistor	R548	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
14S4294500	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.035327	1.00	.2411	0.035327	28306621.87
105A542203	Resistor	R503	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
105A547033	Resistor	R257,R259,R266,R274	Bellcore Issue 6	Level I		0.002189	4.00	.0598	0.008755	456903383.18
105A547003	Resistor	R289,R292,R81-R83	Bellcore Issue 6	Level I		0.002189	5.00	.0747	0.010943	456903383.18
14S428010C	Integrated Circuit	U16	Bellcore Issue 6	Level I	12.00	0.070168	1.00	.4789	0.070168	14251571.52
105A522613	Resistor	R358	Bellcore Issue 6	Level I		0.002189	1.00	.0149	0.002189	456903383.18
1315780310	Semiconductor	Q21,Q2,Q31,Q33,Q36,Q7,Q9	Bellcore Issue 6	Level I		0.075566	7.00	3.6103	0.528963	13233427.50
1315780310	Semiconductor	Q34	Bellcore Issue 6	Level I	15.10	0.114774	1.00	.7834	0.114774	8712791.60
1315780310	Semiconductor	Q8	Bellcore Issue 6	Level I	10.70	0.102046	1.00	.6965	0.102046	9799525.97

