

ETX-LN-A11

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8.615017 ppm MTBF: 116,076 Hours
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Issue date	Approval	Test Engineer
2012/10/31	Tom Lin	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: ETX-LN-A11

II . Prediction Date: Oct. 31, 2012

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

IV . Predicted by: Louie Lee

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25 degrees 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:

ETX-LN-A11 (9697LUNA41-D):

- Failure Rate: 8.615017 ppm
- MTBF: 116,076 Hours

AAEON Reliability Prediction Report

Part Number 9697LUNA41-D
Reference Des
Date 10. 31, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name ETX-LN-A11.RPJ
Time 10:53
Failure Rate 8.615017
MTBF 116,076

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
ETX-LN-A11	9697LUNA41-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	8.62	116076.39

AAEON Reliability Prediction Report

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Description Top-level assembly
File Name ETX-LN-A11.RPJ
Time 10:53
Failure Rate 8.615017
MTBF 116,076

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655902122	Connection	BAT1A	Telcordia Issue 1	Level I		1.00	0.028449	.3302	35151210.83
1654907101	Connection	CN1,CN2	Telcordia Issue 1	Level I		2.00	0.022759	.5284	43939013.54
165300320D	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.001138	.0132	878780270.71
1655912130	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.001138	.0132	878780270.71
11E9501091	Capacitor	C10,C119,C12,C120, C123,C124,C127, C128,C14,C15,C151, C161,C163,C19,C21, C212,C218,C223,C23, C231,C238,C24,C242, C245,C256,C268,C27, C31,C311,C32,C33, C332,C333,C34,C364, C365,C366,C367,C37, C371,C383,C384,C39, C40,C42,C45,C46, C47,C48,C49,C50	Telcordia Issue 1	Level I		58.00	0.004535	3.0534	220487045.01
1121501690	Capacitor	C100,C101,C102, C103,C104,C105, C106,C11,C125,C126, C129,C130,C132, C133,C134,C135, C136,C137,C138, C144,C147,C148, C154,C155,C158, C159,C160,C164, C168,C169,C171, C172,C173,C174, C175,C176,C179, C180,C181,C182,	Telcordia Issue 1	Level I		148.00	0.004535	7.7915	220487045.01
1129701790	Capacitor	C110,C111,C112, C113,C114,C115, C116,C117,C118,C13, C149,C152,C20,C314	Telcordia Issue 1	Level I		14.00	0.004535	.7370	220487045.01
11E9622050	Capacitor	C141,C142,C145,C16, C17,C170,C177,C178, C18,C243,C246,C247, C29,C30,C36,C360, C361,C387,C388,C43, C83,C89	Telcordia Issue 1	Level I		22.00	0.004535	1.1582	220487045.01
1189627150	Capacitor	C143,C25,C273,C274, C275,TC1	Telcordia Issue 1	Level I		6.00	0.004535	.3159	220487045.01
11E9647680	Capacitor	C131,C146,C263,C28, C385,C395,C396,C61	Telcordia Issue 1	Level I		8.00	0.004535	.4212	220487045.01

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129622690	Capacitor	C140,C156,C267,C54, C69,C70,C71,C72, C73,C80,C82	Telcordia Issue 1	Level I		11.00	0.004535	.5791	220487045.01
1124427090	Capacitor	C278,C301,C302,C95, C96	Telcordia Issue 1	Level I		5.00	0.004535	.2632	220487045.01
1122522890	Capacitor	C139,C166	Telcordia Issue 1	Level I		2.00	0.004535	.1053	220487045.01
11C9510050	Capacitor	C150,C153,C157, C162,C186,C188, C190,C192,C194, C196,C207,C209, C213,C215,C221, C225,C227,C232, C234,C235,C236, C239,C248,C251, C272,C308,C309, C312,C331,C359, C372,C374	Telcordia Issue 1	Level I		32.00	0.004535	1.6847	220487045.01
11C1547890	Capacitor	C167	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1189615150	Capacitor	C210,C214,C216, C266,C269	Telcordia Issue 1	Level I		5.00	0.004535	.2632	220487045.01
11C1533890	Capacitor	C229	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1189633150	Capacitor	C244,TC2	Telcordia Issue 1	Level I		2.00	0.004535	.1053	220487045.01
1189633162	Capacitor	C257	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1129522790	Capacitor	C270	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1124522290	Capacitor	C276,C318	Telcordia Issue 1	Level I		2.00	0.004535	.1053	220487045.01
1124522190	Capacitor	C277,C379	Telcordia Issue 1	Level I		2.00	0.004535	.1053	220487045.01
1124547190	Capacitor	C279	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1129710390	Capacitor	C281,C283,C286	Telcordia Issue 1	Level I		3.00	0.004535	.1579	220487045.01
11C4582190	Capacitor	C284	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1124533280	Capacitor	C285	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1124410190	Capacitor	C362,C363,C368, C377,C378	Telcordia Issue 1	Level I		5.00	0.004535	.2632	220487045.01
11E9722090	Capacitor	C376	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
1189633193	Capacitor	C394	Telcordia Issue 1	Level I		1.00	0.004535	.0526	220487045.01
16515A2990	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001138	.0132	878780270.71
1301005444	Semiconductor	D1,D2,D3	Telcordia Issue 1	Level I		3.00	0.023881	.8316	41874327.58
1301005440	Semiconductor	D11,D4	Telcordia Issue 1	Level I		2.00	0.023881	.5544	41874327.58
1301053040	Semiconductor	D7,D8	Telcordia Issue 1	Level I		2.00	0.023881	.5544	41874327.58
1301005442	Semiconductor	D10	Telcordia Issue 1	Level I		1.00	0.023881	.2772	41874327.58
1212306030	Resistor	FB1,FB10,FB11,FB12, FB14,FB18,FB3,FB4, FB7,FB8,FB9	Telcordia Issue 1	Level I		11.00	0.011379	1.4530	87878027.07
1212306031	Inductor	FB15,FB16,FB17, FB19,FB2,FB20,FB21, FB22,FB23	Telcordia Issue 1	Level I		9.00	0.002268	.2369	440974090.03
12123C0003	Inductor	FB5,FB6	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03

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File Name ETX-LN-A11.RPJ
Time 10:53
Failure Rate 8.615017
MTBF 116,076

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R100,R101,R102, R103,R104,R105, R106,R107,R117, R118,R121,R122, R123,R124,R125, R126,R127,R131, R135,R136,R138, R141,R143,R148, R155,R156,R159, R160,R161,R163, R167,R168,R169, R170,R174,R179, R181,R182,R184,	Telcordia Issue 1	Level I		92.00	0.002268	2.4217	440974090.03
105A523713	Resistor	R5	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A549969	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A575009	Resistor	R11,R360	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A706209	Resistor	R12	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A700009	Resistor	R112,R13,R132,R133, R14,R140,R142,R154, R162,R183,R185, R207,R208,R215, R218,R219,R220, R221,R224,R226, R227,R228,R229, R231,R232,R233, R234,R235,R236, R253,R288,R297, R298,R300,R301, R302,R304,R316, R317,R333,R349,	Telcordia Issue 1	Level I		65.00	0.002268	1.7110	440974090.03
105A566503	Resistor	R15	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A510009	Resistor	R16,R36	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A505109	Resistor	R17,R20,R21,R22, R24,R25,R30,R31, R35,R37,R38,R39, R40	Telcordia Issue 1	Level I		13.00	0.002268	.3422	440974090.03
105A597604	Resistor	R18	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A500139	Resistor	R164,R165,R176, R180,R19,R387,R389, R425,R525,R58,R59, R60,R61	Telcordia Issue 1	Level I		13.00	0.002268	.3422	440974090.03
105A706809	Resistor	R27	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050533214	Resistor	R28,R351	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03

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File Name ETX-LN-A11.RPJ
Time 10:53
Failure Rate 8.615017
MTBF 116,076

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A500239	Resistor	R29	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A515009	Resistor	R41,R42,R43	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
105A710039	Resistor	R149,R171,R344, R346,R366,R367, R427,R44,R45	Telcordia Issue 1	Level I		9.00	0.002268	.2369	440974090.03
1050580664	Resistor	R52,R54	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A702209	Resistor	R62,R64,R65,R67, R69,R70,R72,R74, R77,R78	Telcordia Issue 1	Level I		10.00	0.002268	.2632	440974090.03
105A703309	Resistor	R295,R471,R515, R516,R517,R518, R519,R63,R66,R68	Telcordia Issue 1	Level I		10.00	0.002268	.2632	440974090.03
105A701059	Resistor	R166,R71	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A747009	Resistor	R80,R81,R82	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
1050524904	Resistor	R137,R93,R99	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
105A708229	Resistor	R115,R119,R139, R144,R145,R200, R483,R484,R485, R486,R487,R488, R489,R556,R557,R95	Telcordia Issue 1	Level I		16.00	0.002268	.4212	440974090.03
105A522669	Resistor	R97	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050532414	Resistor	R109	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A502133	Resistor	R110	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A542213	Resistor	R111	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A545303	Resistor	R113	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050526764	Resistor	R114	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A704729	Resistor	R116,R120,R225, R263,R279,R281, R287,R294,R307, R308,R310,R313, R339,R392,R476, R478,R481,R491, R492,R493,R513	Telcordia Issue 1	Level I		21.00	0.002268	.5528	440974090.03
1050556269	Resistor	R129,R134	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A510053	Resistor	R152	Telcordia Issue 1	Level I		1.00	0.013606	.1579	73495681.67
1050701504	Resistor	R173,R175,R178, R212,R213,R331	Telcordia Issue 1	Level I		6.00	0.002268	.1579	440974090.03
105A502039	Resistor	R177,R391,R505	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
105A701009	Resistor	R191,R194,R277, R400	Telcordia Issue 1	Level I		4.00	0.002268	.1053	440974090.03
105A700103	Resistor	R192,R193,R195, R196	Telcordia Issue 1	Level I		4.00	0.002268	.1053	440974090.03
1050533034	Resistor	R197,R198	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03

AAEON Reliability Prediction Report

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Date 10. 31, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name ETX-LN-A11.RPJ
Time 10:53
Failure Rate 8.615017
MTBF 116,076

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A733009	Resistor	R210,R472,R474, R475,R477	Telcordia Issue 1	Level I		5.00	0.002268	.1316	440974090.03
105A702039	Resistor	R241,R421,R511	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
105A707509	Resistor	R246,R247,R248, R249,R252,R256, R274, R498, R499	Telcordia Issue 1	Level I		9.00	0.002268	.2369	440974090.03
105A710009	Resistor	R280,R282,R284, R286,R289	Telcordia Issue 1	Level I		5.00	0.002268	.1316	440974090.03
105A702053	Resistor	R318	Telcordia Issue 1	Level I		1.00	0.013606	.1579	73495681.67
1050702734	Resistor	R321	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050507530	Resistor	R348,R350,R545	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
105A701003	Resistor	R361,R362	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A501539	Resistor	R363,R415,R431	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
1050502424	Resistor	R364	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050501234	Resistor	R365	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A506829	Resistor	R368,R369	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
1050503334	Resistor	R370	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A703363	Resistor	R373	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A702263	Resistor	R377,R378,R382, R384	Telcordia Issue 1	Level I		4.00	0.002268	.1053	440974090.03
105A700003	Resistor	R379,R385,R407	Telcordia Issue 1	Level I		3.00	0.002268	.0790	440974090.03
105A515034	Resistor	R380	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A536533	Resistor	R381	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A575033	Resistor	R386	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A580623	Resistor	R388	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A549919	Resistor	R390	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A502003	Resistor	R393	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050586604	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050513034	Resistor	R395	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050584524	Resistor	R396	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A554923	Resistor	R397	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A511503	Resistor	R401	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A524919	Resistor	R413	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A501039	Resistor	R429,R430,R435, R436,R440,R441, R443	Telcordia Issue 1	Level I		7.00	0.002268	.1843	440974090.03
105A503039	Resistor	R442	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A705139	Resistor	R494,R495	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A705129	Resistor	R497,R508	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
1050539224	Resistor	R510	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A704739	Resistor	R514	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03

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Time 10:53
Failure Rate 8.615017
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A702239	Resistor	R520,R521	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A703909	Resistor	R528,R529	Telcordia Issue 1	Level I		2.00	0.002268	.0526	440974090.03
105A518703	Resistor	R542	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1050505164	Resistor	R543	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A528723	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105A503333	Resistor	R546	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
105B500279	Resistor	R547	Telcordia Issue 1	Level I		1.00	0.002268	.0263	440974090.03
1600000403	Connection	SW1	Telcordia Issue 1	Level I		1.00	0.028449	.3302	35151210.83
14S4180010	Integrated Circuit	U1	Telcordia Issue 1	Level I	19.20	1.00	0.075600	.8775	13227427.32
14S3050100	Integrated Circuit	U2	Telcordia Issue 1	Level I	38.20	1.00	0.706798	8.2043	1414830.46
14S4280126	Integrated Circuit	U3	Telcordia Issue 1	Level I	7.80	1.00	0.040933	.4751	24430386.85
14S5A01402	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.026183	.3039	38193355.79
14S5A12506	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.026183	.3039	38193355.79
14S4010200	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026183	.3039	38193355.79
14S4010300	Integrated Circuit	U7	Telcordia Issue 1	Level I	22.50	1.00	0.089561	1.0396	11165583.45
14S4362707	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.026183	.3039	38193355.79
1315971500	Integrated Circuit	U11,U14	Telcordia Issue 1	Level I		2.00	0.059366	1.3782	16844654.92
1314880511	Integrated Circuit	U12	Telcordia Issue 1	Level I		1.00	0.059366	.6891	16844654.92
1314108610	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.059366	.6891	16844654.92
14S3111600	Integrated Circuit	U15	Telcordia Issue 1	Level I	15.00	1.00	0.090965	1.0559	10993185.70
1315050311	Integrated Circuit	U16,U17	Telcordia Issue 1	Level I		2.00	0.059366	1.3782	16844654.92
14S2591200	Integrated Circuit	U18,U19	Telcordia Issue 1	Level I		2.00	0.059366	1.3782	16844654.92
1315422410	Semiconductor	U20,U21	Telcordia Issue 1	Level I		2.00	0.079603	1.8480	12562298.27
14S3112400	Integrated Circuit	U22	Telcordia Issue 1	Level I	11.50	1.00	0.133453	1.5491	7493247.70
14S2538000	Integrated Circuit	U23	Telcordia Issue 1	Level I	22.30	1.00	0.270836	3.1438	3692267.89
1315482110	Semiconductor	U24	Telcordia Issue 1	Level I		1.00	0.079603	.9240	12562298.27
1315482410	Semiconductor	U25	Telcordia Issue 1	Level I		1.00	0.079603	.9240	12562298.27
14S4810500	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.059366	.6891	16844654.92
14S6334607	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.022943	.2663	43586356.53
14S82C6405	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.059366	.6891	16844654.92
14S82C6400	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.059366	.6891	16844654.92
14S4081110	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.059366	.6891	16844654.92
14S4888801	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.026183	.3039	38193355.79
14S3066200	Integrated Circuit	U37	Telcordia Issue 1	Level I	25.40	1.00	0.328960	3.8185	3039881.97
1653150221	Connection	X1A,X1B,X1C,X1D	Telcordia Issue 1	Level I		4.00	0.056897	2.6418	17575605.41
123131435J	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.7411	6666666.67

