

DASH7E1

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 16.317859 ppm MTBF: 61,283 Hours
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Issue date

2015/8/20

Approval

KJ Wang

Test Engineer

Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: DASH7E1

II . Prediction Date: Aug. 20, 2015

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

IV . Predicted by: Anderson Lin

V . Equipment: Windchill Quality Solutions 10.1

VI. Simulation Environment:

- Temperature: 30 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used in 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 in specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

DASH7E1 (9697DASH84-D):

- Failure Rate: 16.317859 ppm

- MTBF: 61,283 Hours

File Name: DASH7E1.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 16.317859
MTBF (hrs): 61,283
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
9697DASH84-S			0.000000	1	0.000000
1214609000	Capacitor	CH10,CH4 ,CH6,CH8, CH9	0.005644	5	0.028220
1540100040	Resistor	CH5,CH7, RN1,RN11 RN12,RN1 3,RN14, RN15,RN1 6,RN17, RN19,RN2 ,RN21,RN 22, RN23	0.019552	15	0.293278
1654901035	Connection	CN1	0.036784	1	0.036784
1654903931	Connection	CN2	0.036784	1	0.036784
1655902130	Connection	CN27,CN5	0.036784	2	0.073567
1655914122	Connection	CN6	0.036784	1	0.036784
1652505211	Connection	CN7	0.036784	1	0.036784
1654901036	Connection	CN9	0.036784	1	0.036784
1654800530	Connection	CN11	0.036784	1	0.036784
1654903600	Connection	CN15,CN1 6,CN21, CN22	0.036784	4	0.147135
1654900731	Connection	CN18	0.036784	1	0.036784
1654226304	Connection	CN19	0.036784	1	0.036784
1655910130	Connection	CN20	0.036784	1	0.036784
1654901232	Connection	CN24	0.036784	1	0.036784
1654903130	Connection	CN25	0.036784	1	0.036784
1655908123	Connection	CN29	0.036784	1	0.036784
11A2412050	Capacitor	C1,C2,C62 9,C630	0.005644	4	0.022576

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11E9510490	Capacitor	C100,C101,C102,C117,C118,C119,C120,C121,C122,C123,C126,C127,C131,C135,C149,C155,C150,C152,C154,C157,C158,C161,C162,C166,C20,C227,C229,C230,C232,C236,C238,C239,C244,C240,C241,C242,C243,C244,C245,C247,C248,C250,C251,C254,C257,C258,C259,C260,C26	0.005644	150	0.846604

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11EA647450	Capacitor	C10,C103, C104,C10 5, C106,C10 7,C108, C109,C11, C110,C11 1, C112,C11 3,C114, C115,C11 6,C12,C13 C14,C16,C 17,C18, C19,C21,C 22,C23, C25,C26,C 27,C28, C29,C36,C 37,C38, C39,C4,C4 0,C41,C43 C44,C45,C 46,C47, C48,C49,C 5,C50,C52 C53,C54,C 55,C56, C57,C58,C 6,C60,C61 , C6	0.005644	91	0.513607
11EA510390	Capacitor	C124,C15 5,C156, C159,C16 0,C199, C297,C29 8	0.005644	8	0.045152
1129622690	Capacitor	C125,C12 8,C129, C130,C13 3,C134, C148,C15 1,C153, C270,C27 2,C274, C280,C28 1,C282, C283,C39 0	0.005644	17	0.095949

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11E9647690	Capacitor	C135,C19 8,C255, C278,C28 5,C286, C324,C37 4,C391, C394,C39 7,C405, C408,C45 1,C478, C482,C54 6,C553, C554,C55 5,C567, C571,C57 2,C573, C574,C57 9,C581, C584,C58 6,C592, C594,C59 5,C596, C598,C60 0,C602, C603,C60 4,C606, C608,C60 9,C617	0.005644	42	0.237049

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1121501691	Capacitor	C136,C138,C140,C170,C172,C174,C187,C192,C194,C267,C289,C291,C318,C319,C320,C340,C345,C350,C351,C354,C356,C358,C362,C364,C368,C370,C373,C376,C378,C379,C380,C402,C407,C447,C449,C450,C453,C454,C455,C460,C461,C462,C464,C465,C500,C518,C519,C520,	0.005644	79	0.445878

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11E9501091	Capacitor	C137,C163,C167,C188,C231,C233,C237,C249,C256,C290,C292,C315,C339,C353,C365,C371,C372,C444,C446,C467,C472,C474,C480,C534,C536,C568,C577,C583,C587,C588,C589,C590,C591,C599,C601,C605,C610,C612,C615,C616,C618,C621,C622,C623,C626,C628,C646,	0.005644	65	0.366862
11E9610080	Capacitor	C139,C165,C228,C246,C266,C268,C276,C279,C325,C330,C341,C352,C360,C366,C389,C400,C403,C448,C452,C459,C463,C569,C585,C611,C681,C694,C696,C697,C700	0.005644	29	0.163677

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11E2433090	Capacitor	C141,C14 2,C143, C144,C14 5,C146, C147,C34 2,C344, C346,C34 7,C381, C382,C38 3,C384, C385,C38 6,C387	0.005644	18	0.101593
11A2410240	Capacitor	C166,C16 8,C498, C707,C72 1,C722, C726	0.005644	7	0.039508
11E9622080	Capacitor	C169,C17 1,C193, C547,C54 8,C549, C550,C55 1,C556, C557,C55 8,C559, C560,C56 1,C562, C563,C56 4,C565, C575,C57 6,C593, C597,C66 5	0.005644	23	0.129813
11E1622060	Capacitor	C173,C51 3,C644, C645,C66 2,C664, C690,C69 1,C740, C741	0.005644	10	0.056440
1129747091	Capacitor	C175	0.005644	1	0.005644
1129701791	Capacitor	C176,C19 0,C191, C333,C35 5,C363, C369,C51 1,C738	0.005644	9	0.050796
11E2501030	Capacitor	C177,C18 5,C195, C512,C53 0,C632	0.005644	6	0.033864

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1124522680	Capacitor	C178,C179,C180,C181,C182,C183	0.005644	6	0.033864
1129522790	Capacitor	C184,C197,C326,C654	0.005644	4	0.022576
11C4522290	Capacitor	C186,C688	0.005644	2	0.011288
1129722091	Capacitor	C189,C287,C456,C457,C458,C486,C487,C718,C719	0.005644	9	0.050796
11E2501690	Capacitor	C196,C293,C514,C515,C525,C527,C531,C633,C637,C640,C641,C692	0.005644	12	0.067728
1124418090	Capacitor	C234,C235,C252,C253,C489,C496	0.005644	6	0.033864
1124533191	Capacitor	C295,C296,C301,C302,C303,C304	0.005644	6	0.033864
11E1510290	Capacitor	C312	0.005644	1	0.005644
1129710090	Capacitor	C316,C317	0.005644	2	0.011288
1129715090	Capacitor	C337,C338	0.005644	2	0.011288
1189610192	Capacitor	C357,C361,C367	0.005644	3	0.016932
1124410191	Capacitor	C359,C413,C653,C689,C704,C705	0.005644	6	0.033864
11E4982640	Capacitor	C398,C399	0.005644	2	0.011288
11A4922690	Capacitor	C466,C471	0.005644	2	0.011288

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11E1510050	Capacitor	C526,C529,C634,C635,C636,C642,C655,C656,C657,C658,C686,C734	0.005644	12	0.067728
11C2522650	Capacitor	C528,C720,C744	0.005644	3	0.016932
11E9547790	Capacitor	C652	0.005644	1	0.005644
1189615154	Capacitor	C661,C663	0.005644	2	0.011288
11C1547890	Capacitor	C702	0.005644	1	0.005644
1301793040	Semiconductor	D1,D10,D11,D12,D13,D15,D2,D3,D32,D33,D34,D35,D36,D4,D5,D6,D7	0.027506	17	0.467605
1301053040	Semiconductor	D8	0.027506	1	0.027506
1305080040	Semiconductor	D16,D17,D18,D19,D20,D21,D25,D26,D27,D28,D29,D30,D40	0.027506	13	0.357580
1301005450	Semiconductor	D22	0.027506	1	0.027506
1305401200	Semiconductor	D23,D24,D31,D38	0.027506	4	0.110025
1301SX3440	Semiconductor	D37	0.027506	1	0.027506
12123C0025	Inductor	FB1,FB24,FB9	0.002497	3	0.007491
1212306030	Inductor	FB10,FB19,FB2,FB20,FB25,FB26,FB27,FB37,FB5,FB6	0.002497	10	0.024971

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12123D0002	Inductor	FB11,FB12,FB13,FB16,FB17,FB18,FB21,FB22,FB23,FB28,FB38,FB7	0.002497	12	0.029965
121230805A	Inductor	FB35,FB39,FB8	0.002497	3	0.007491
121231206B	Inductor	FB33,FB34	0.002497	2	0.004994
1752026001	Inductor	F1,F2	0.002497	2	0.004994
1211147078	Inductor	L1	0.002497	1	0.002497
1211100119	Inductor	L2	0.002497	1	0.002497
1211122074	Inductor	L4	0.002497	1	0.002497
1211100560	Inductor	L15,L16,L17,L18,L20,L21,L22,L23	0.002497	8	0.019977
121110106R	Inductor	L19,L24,L25	0.002497	3	0.007491
1211147076	Inductor	L26	0.002497	1	0.002497
1211133078	Inductor	L27,L28,L29	0.002497	3	0.007491

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1315EM6K10	Semiconductor	Q1,Q10,Q100,Q101,Q104,Q105,Q106,Q107,Q108,Q109,Q12,Q13,Q14,Q15,Q16,Q17,Q18,Q19,Q2,Q20,Q21,Q22,Q23,Q26,Q27,Q29,Q3,Q31,Q32,Q34,Q35,Q36,Q37,Q38,Q46,Q47,Q5,Q50,Q53,Q59,Q61,Q62,Q63,Q64,Q67,Q7,Q70,Q73,Q75,Q76,Q77,Q78,Q81,Q82,Q84,Q85,Q86,Q87,Q88,Q8	0.027506	66	1.815406
1315230511	Semiconductor	Q30,Q33,Q4,Q45,Q51,Q60,Q66,Q83,Q91,Q94,Q99	0.027506	11	0.302568
1315B55XP0	Semiconductor	Q103,Q28,Q48,Q49,Q52,Q54,Q55,Q56,Q57,Q58,Q6,Q65,Q68,Q95	0.027506	14	0.385086
1310390413	Semiconductor	Q39	0.027506	1	0.027506
1315720010	Semiconductor	Q69,Q71,Q72	0.027506	3	0.082518
1315806510	Semiconductor	Q74,U72	0.027506	2	0.055012
1315443512	Semiconductor	Q79,Q80,U65	0.027506	3	0.082518

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105A515009	Resistor	R1,R2,R91 ,R92	0.002497	4	0.009988
105A524919	Resistor	R9	0.002497	1	0.002497
105A710039	Resistor	R10,R173, R295,R32 4, R328,R32 9,R397, R398,R45 8,R471, R533,R55 6,R557, R559,R56 0,R561, R562,R56 7,R568, R569,R57 0,R593, R595,R61 1,R658, R701,R70 4,R717, R740,R76 8,R89,R90	0.002497	32	0.079907

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105B700009	Resistor	R100,R113,R114,R116,R117,R118,R119,R12,R13,R137,R138,R139,R14,R16 R218,R219,R267,R299,R300,R301,R305,R307,R308,R312,R313,R322,R347,R348,R35,R364, R377,R395,R410,R411,R412,R413,R414,R415,R416,R417,R418,R419,R420,R421,R422,R423,R429,R430,R431,	0.002497	98	0.244715
105B704725	Resistor	R17,R18,R21,R22,R23,R25,R284,R285,R288,R291,R294,R297,R34,R350,R380, R432,R473	0.002497	17	0.042451

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105B710039	Resistor	R112,R13 1,R151, R166,R17 6,R180, R217,R22 4,R225, R228,R23 6,R24,R24 4, R246,R24 7,R248,R2 6, R264,R26 5,R268,R2 7, R278,R27 9,R282, R283,R28 6,R287, R289,R29 0,R298, R302,R30 3,R306, R309,R31 4,R315, R316,R31 8,R320, R321,R32 6,R327, R331,R33 9,R344, R352,R35 5,R356,R3 7,	0.002497	104	0.259698
1050502204	Resistor	R36	0.002497	1	0.002497

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105B701039	Resistor	R129,R134,R154,R155,R156,R157,R158,R159,R179,R182,R216,R220,R221,R222,R226,R227,R231,R233,R234,R235,R237,R238,R239,R240,R245,R252,R273,R277,R292,R333,R334,R335,R336,R337,R338,R340,R341,R358,R361,R362,R366,R367,R370,R376,R38,R386,R399,R400,R	0.002497	72	0.179791
105A500139	Resistor	R507,R51,R53	0.002497	3	0.007491
105A549969	Resistor	R52	0.002497	1	0.002497
1050524004	Resistor	R54,R55	0.002497	2	0.004994
1050534864	Resistor	R57	0.002497	1	0.002497
105A505109	Resistor	R58	0.002497	1	0.002497
1059700001	Resistor	R62	0.002497	1	0.002497
105B702225	Resistor	R130,R149,R150,R170,R171,R345,R346,R63,R67	0.002497	9	0.022474
1050520034	Resistor	R81,R88	0.002497	2	0.004994

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105A702269	Resistor	R115,R136,R655,R662,R667,R671	0.002497	6	0.014983
105B702205	Resistor	R120,R121,R122,R123,R124,R125,R126,R127,R128,R140,R141,R142,R143,R144,R145,R146,R147,R148,R271,R272,R403,R404,R405,R406,R407,R408,R409,R545,R546,R548,R550	0.002497	31	0.077410
105A733009	Resistor	R153,R375,R460,R709,R726,R729,R741,R767	0.002497	8	0.019977

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105A700003	Resistor	R161,R25 9,R372, R676,R69 4,R739	0.002497	6	0.014983
105A701039	Resistor	R162,R32 3,R325, R439,R44 2,R612, R657,R71 5,R720, R730,R73 1	0.002497	11	0.027468
1050533034	Resistor	R178,R18 1,R196, R438,R44 0,R534, R536,R58 5,R604, R606,R65 9,R727, R728,R75 9	0.002497	14	0.034959
1050510034	Resistor	R183,R18 7,R193, R665,R67 0,R673, R677,R72 3	0.002497	8	0.019977
1050582034	Resistor	R184	0.002497	1	0.002497
1050504334	Resistor	R185	0.002497	1	0.002497
1050524324	Resistor	R186	0.002497	1	0.002497
1050509124	Resistor	R188	0.002497	1	0.002497
1050568034	Resistor	R189,R58 1	0.002497	2	0.004994
1050501054	Resistor	R190,R71 9	0.002497	2	0.004994
1050500334	Resistor	R191	0.002497	1	0.002497
1050505633	Resistor	R192	0.002497	1	0.002497
1050504734	Resistor	R198,R25 8,R457, R588,R69 9,R703	0.002497	6	0.014983
1059500201	Resistor	R205,R55 4,R690, R763	0.002497	4	0.009988
1050501234	Resistor	R230,R24 9	0.002497	2	0.004994

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105B701059	Resistor	R232,R250,R293,R330,R441,R478,R479,R480,R537,R579,R587,R590,R594,R596,R597,R616,R712,R713,R737,R738,R743,R748,R749,R750,R760,R769	0.002497	26	0.064925
105A544214	Resistor	R253	0.002497	1	0.002497
105A702229	Resistor	R260	0.002497	1	0.002497
105B703309	Resistor	R269,R270,R573,R574,R575,R576,R577,R578,R761,R762	0.002497	10	0.024971
105A701069	Resistor	R310	0.002497	1	0.002497
105A502039	Resistor	R353,R393,R685,R686	0.002497	4	0.009988
1050516014	Resistor	R357	0.002497	1	0.002497
105A553629	Resistor	R459,R705,R708	0.002497	3	0.007491
105A747009	Resistor	R482,R484,R751,R753,R754,R755,R756,R758	0.002497	8	0.019977
105B700139	Resistor	R483,R485,R505,R544,R553,R672	0.002497	6	0.014983
105A703309	Resistor	R506	0.002497	1	0.002497
105A705639	Resistor	R508,R510,R512,R514	0.002497	4	0.009988
105A501139	Resistor	R565,R571,R724	0.002497	3	0.007491

File Name: DASH7E1.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 16.317859
MTBF (hrs): 61,283
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1050524924	Resistor	R566,R572,R630,R631,R633,R674,R675,R678,R679,R722	0.002497	10	0.024971
105A701009	Resistor	R613,R614	0.002497	2	0.004994
1050560424	Resistor	R621,R668	0.002497	2	0.004994
1050522034	Resistor	R625	0.002497	1	0.002497
106B504734	Resistor	R638,R640,R641	0.002497	3	0.007491
1051500172	Resistor	R656,R663	0.002497	2	0.004994
105A512039	Resistor	R661	0.002497	1	0.002497
105A739039	Resistor	R664	0.002497	1	0.002497
105A506829	Resistor	R680,R684,R744,R779	0.002497	4	0.009988
1050501334	Resistor	R682	0.002497	1	0.002497
105A503039	Resistor	R683	0.002497	1	0.002497
105A506834	Resistor	R687,R688,R700,R706,R711	0.002497	5	0.012485
1050502734	Resistor	R702	0.002497	1	0.002497
105A703313	Resistor	R745,R746	0.002497	2	0.004994
1440Z27600	Integrated Circuit	U1	0.042271	1	0.042271
144P6001Q0	Integrated Circuit	U2	0.085069	1	0.085069
14S5A30601	Integrated Circuit	U4,U5	0.085069	2	0.170138
149TB01040	Integrated Circuit	U6,U8	0.085069	2	0.170138
1441211A10	Integrated Circuit	U10,U9	0.085069	2	0.170138
1430035210	Integrated Circuit	U11,U37	0.085069	2	0.170138
14S3104500	Integrated Circuit	U12,U13	0.085069	2	0.170138
1443587640	Integrated Circuit	U15	0.085069	1	0.085069
1430651500	Integrated Circuit	U18	0.085069	1	0.085069
14S3116500	Integrated Circuit	U23	0.085069	1	0.085069
14S5904501	Integrated Circuit	U24	0.085069	1	0.085069
14S4251701	Integrated Circuit	U26	0.085069	1	0.085069
143HT75330	Integrated Circuit	U27	0.085069	1	0.085069
14S4251402	Integrated Circuit	U28	0.085069	1	0.085069
14234DT010	Integrated Circuit	U29	0.085069	1	0.085069
1440056420	Integrated Circuit	U30	0.085069	1	0.085069
1.44E+07	Integrated Circuit	U31	0.085069	1	0.085069
1440095750	Integrated Circuit	U32	0.085069	1	0.085069

File Name: DASH7E1.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 16.317859
MTBF (hrs): 61,283
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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
14692540C0	Integrated Circuit	U33	0.085069	1	0.085069
14432F1031	Integrated Circuit	U34	0.085069	1	0.085069
142LSM3030	Integrated Circuit	U35	0.085069	1	0.085069
142L3GD200	Integrated Circuit	U36	0.085069	1	0.085069
1315970211	Integrated Circuit	U38,U39, U40	0.085069	3	0.255207
1440002130	Integrated Circuit	U41	0.085069	1	0.085069
144XR14100	Integrated Circuit	U42	0.085069	1	0.085069
144AH691A0	Integrated Circuit	U43	0.085069	1	0.085069
14S3010700	Integrated Circuit	U48,U67, U68,U69, U82	0.085069	5	0.425346
14S5A03200	Integrated Circuit	U51	0.085069	1	0.085069
1440001280	Integrated Circuit	U52,U53	0.085069	2	0.170138
14S3322100	Integrated Circuit	U55,U60	0.085069	2	0.170138
14S1705000	Integrated Circuit	U58,U59	0.085069	2	0.170138
14S3441600	Integrated Circuit	U61	0.085069	1	0.085069
14S9108500	Integrated Circuit	U62	0.085069	1	0.085069
1430050720	Integrated Circuit	U63	0.085069	1	0.085069
14S2475300	Integrated Circuit	U64	0.085069	1	0.085069
14S3112300	Integrated Circuit	U66	0.085069	1	0.085069
14S3387201	Integrated Circuit	U71	0.085069	1	0.085069
143AZC1990	Integrated Circuit	U74,U75, U76,U77, U78,U79, U81	0.085069	7	0.595484
1490243920	Integrated Circuit	U80	0.085069	1	0.085069
1231384040	Miscellaneous	Y1	0.150000	1	0.150000
1231324056	Miscellaneous	Y2,Y3	0.150000	2	0.300000
1231332726	Miscellaneous	Y4,Y9	0.150000	2	0.300000
12313012A4	Miscellaneous	Y5	0.150000	1	0.150000
121110567C	Inductor	L13,L14	0.002497	2	0.004994
105A501529	Resistor	R497	0.002497	1	0.002497
11A4422190	Capacitor	C490,C49 3	0.005644	2	0.011288
1231271240	Miscellaneous	Y7	0.150000	1	0.150000
105A500239	Resistor	R504	0.002497	1	0.002497
1124456091	Capacitor	C491,C49 4	0.005644	2	0.011288
1440PN5330	Integrated Circuit	U54	0.085069	1	0.085069
14306863A0	Integrated Circuit	U70	0.085069	1	0.085069
1469E100A0	Integrated Circuit	U14	0.085069	1	0.085069
1468164B20	Integrated Circuit	U3	0.028401	1	0.028401