

Test Report

ICR-1602-CN-A

(Reliability Prediction)

Report No : 24R355A0

Report Issue Date : September 24, 2024

Mark. Tai

Approval

Meei Chou

Test Engineer

Advantech QA Laboratory
台北市內湖區陽光街365巷33號1樓
1F., No.33, Ln. 365, Yangguang St., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)
TEL: 886-2-2792-7818 FAX: 886-2-2794-7305
www.advantech.com.tw

Reliability Prediction

I. Date: 2024/09/24

II. Model Name: ICR-1602-CN-A

III. Revision: N/A

IV. Description: LTE Cat4 v1 router with 2GE, CHINA

**V. Equipment: Windchill Risk and Reliability Calculation Method:
Telcordia Issue 4 ; Method I Case 3.**

VI. Prediction Result : GB, GC – Ground Benign, Controlled

.Environment : GB

.Temperature : 30°C

.Quality : Level II

.Stress : 50%

.Failure Rate: 755.374893 FITs.

.MTBF : 1,323,846 hours.

Reliability Prediction

VII. Index: A. Failure Rate & Assembly MTBF

B. Part Failure List

**Reliability Prediction
Summary**

File Name: ICR-1602-CN-A.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 755.374893
MTBF (hrs): 1,323,846
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1652002024	Connection		0.049045	1	0.065268
1211005927-01	Inductor		0.199768	1	0.277125
1652000984	Connection		0.177788	1	0.259480
1654015603-01	Connection		0.177788	1	0.259480
1655006379-01	Connection		0.177788	2	0.470224
1000000153	Resistor		0.066589	1	0.088615
1000000165	Resistor		0.066589	1	0.088615
1000000177	Resistor		0.066589	8	0.593057
1000000331	Resistor		0.066589	2	0.164100
1000000642	Resistor		0.066589	1	0.088615
1000002016	Resistor		0.117311	1	0.230442
1000003459	Resistor		0.117311	1	0.230442
1000004956	Resistor		0.117311	1	0.230442
1000006377	Resistor		0.066589	3	0.237496
1000007666	Resistor		0.117311	1	0.230442
1000007788	Resistor		0.066589	1	0.088615
1000007947	Resistor		0.066589	1	0.088615
1000010247	Resistor		0.117311	1	0.230442
1059700001	Resistor		0.066589	2	0.164100
105A50103A	Resistor		0.066589	11	0.803240
105A510004	Resistor		0.066589	4	0.309817
105A510014	Resistor		0.066589	13	0.942582
105A510023	Resistor		0.066589	1	0.088615
105A510033	Resistor		0.066589	2	0.164100
105A510034	Resistor		0.066589	1	0.088615
105A516023	Resistor		0.066589	1	0.088615
105A52003A	Resistor		0.066589	1	0.088615
105A52491A	Resistor		0.066589	1	0.088615
105A52492A	Resistor		0.066589	1	0.088615
105A700004	Resistor		0.117311	20	2.843011
105A700203	Resistor		0.066589	2	0.164100
105A70513A	Resistor		0.066589	2	0.164100
105A707509	Resistor		0.066589	8	0.593057
105A710014	Resistor		0.066589	1	0.088615
105A715004	Resistor		0.066589	1	0.088615
105A747014	Resistor		0.066589	14	1.012075
1100000331	Capacitor		0.094067	2	0.205183
1100000332	Capacitor		0.094067	31	2.983202
1100002115	Capacitor		0.094067	1	0.106122
1100003175	Capacitor		0.094067	3	0.303082
1100004046	Capacitor		0.094067	2	0.205183
1100006146	Capacitor		0.094067	1	0.106122
1100006537	Capacitor		0.094067	4	0.400379
1100006782	Capacitor		0.094067	4	0.400379
1100007177	Capacitor		0.094067	13	1.266339
1100007214	Capacitor		0.094067	1	0.106122

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1100007318	Capacitor		0.094067	32	3.078344
1100008150-01	Capacitor		0.790747	1	1.043865
1100009083	Capacitor		0.094067	2	0.205183
1100009289-01	Capacitor		0.790747	2	1.936871
1100009824	Capacitor		0.094067	3	0.303082
1100009837	Capacitor		0.094067	3	0.303082
1100010002	Capacitor		0.094067	8	0.786635
1100010056-01	Capacitor		3.329462	1	5.448288
1100010087	Capacitor		0.094067	1	0.106122
1100010088	Capacitor		0.094067	1	0.106122
1100010105	Capacitor		0.094067	2	0.205183
1100010109	Capacitor		0.094067	2	0.205183
1100010135	Capacitor		0.094067	1	0.106122
1100010278	Capacitor		0.094067	1	0.106122
1100010422	Capacitor		0.094067	1	0.106122
1100011315-01	Capacitor		0.094067	1	0.106122
1100011317-01	Capacitor		0.094067	1	0.106122
1121610790	Capacitor		0.094067	3	0.303082
1124410091	Capacitor		0.094067	2	0.205183
1124410190	Capacitor		0.094067	8	0.786635
1124433091	Capacitor		0.094067	5	0.497292
1124510291	Capacitor		0.094067	4	0.400379
1211004013	Inductor		0.091560	1	0.113437
1211004399	Inductor		0.199768	1	0.277125
1211005880-01	Inductor		0.083237	1	0.161117
1231004106-01	Miscellaneous		1.900492	1	3.132758
1252001788	Inductor		8.157183	2	27.201048
1300000191	Semiconductor		9.932778	3	38.887420
1300000373	Semiconductor		0.749129	4	4.417130
1300005769-01	Semiconductor		1.948353	1	2.771587
1300007359-01	Semiconductor		1.948353	4	9.415803
1304003100-01	Optical Device		0.106187	3	0.495651
1304006057-01	Optical Device		0.106187	2	0.357321
1310006408-01	Semiconductor		1.352386	2	4.178173
1310006826-01	Semiconductor		1.352386	1	2.397329
1410012119	Integrated Circuit		0.700000	1	0.700000
1410023741-01	Integrated Circuit		0.900000	1	0.900000
1410024069-01	(BY VENDOR)		0.900000	1	0.900000
1410030157-01	Integrated Circuit		2.067722	1	4.021145
1410030512-01	(BY VENDOR)		0.100000	1	0.100000
1410030744-01	Integrated Circuit		1.604067	1	2.537255
1410033194-01	Integrated Circuit		0.554899	1	1.079123
1410034600-01	Integrated Circuit		5.066438	1	7.229443
1410034641-01	(BY VENDOR MTBF)		626.452590	1	626.452590
1600003018-01	Switching Device		5.517557	1	9.210798
1651003842-01	Connection		0.367837	2	1.061215

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1653005261	Connection		0.245225	1	0.326339
1654002618	Connection		0.177788	3	0.673166
1100010085	Capacitor		0.094067	8	0.786635