

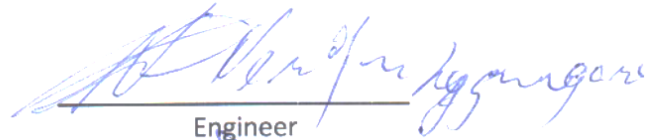


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RELIABILITY PREDICTION REPORT

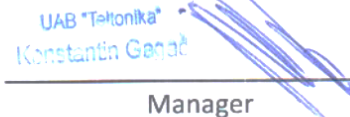
Equipment under Test: GNSS&GSM TERMINAL, FM6320
Product: FM6320
Manufacturer: Teltonika
Report No.: TLTK-20160620FMFT-13
Report Date: 20 June,2016

Documented By:



Engineer

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1. PURPOSE

Reliability prediction methodology provides the basis for reliability evaluation and analysis. The purpose of the prediction is to predict the life time of the product in units of failure rate and MTBF.

2. RELIABILITY PREDICTION

2.1. Analysis Database

Polimore MTBF Calculator

2.2. Analysis Method

The prediction method used: Telcordia SR-332, Issue 2, Parts Count

Failure rate (λ) = 10^6 hours(FITs)

MTBF = $1/\lambda$

$$\lambda_{ssi} = \lambda_{Gi} \pi_{Qi} \pi_{Si} \pi_{Ti}$$

Where

λ_{Gi} = Generic steady – state failure rate for device i

π_{Qi} = Quality factor for device i

π_{Si} = Stress factor for device i

π_{Ti} = Temperature factor for device i

2.3. Calculation Parameters

Environment: Ground Mobile, Uncontrolled

Operation Stress: 50%(Voltage, Current, Power)

Method: Method I, Case 3

3. RESULTS

ITEM	Failure Rate (FIT)	Predicted MTBF (Hours)
Teltonika FM6320	36,954168452	27060,546668745

Note: library components of a near equivalent or similar technology and function were substituted when the parts could not be exactly found in the library.

4. REVISION HISTORY

Rev#	Date	Description
1.0	2016-06-20	First release