JSC Teltonika
Address: Saltoniškių st. 10c, Vilnius, Lithuania
Tel: +370 5 212 7472
Fax +370 5 276 1380

RELIABILITY PREDICTION REPORT

Equipment under Test:	GNSS&GSM TERMINAL, FM6320
Product:	FM6320
Manufacturer:	Teltonika
Report No.:	TLTK-20160620FMFT-13
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Documented By:

Engineer

Approved By:

UAB "Teltonika"
Konstantin Gaigal

Manager

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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/λ

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

Where
$\lambda_{Gi} = Generic\ steady - state\ failure\ rate\ for\ device\ i$
$\pi_{Qi} = Quality\ factor\ for\ device\ i$
$\pi_{Si} = Stress\ factor\ for\ device\ i$
$\pi_{Ti} = Temperature\ factor\ for\ device\ i$

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