

# MTBF Report

## Identification Data

<b>Name of device</b>	Smartflex RS232 RS485 WIFI PSE
<b>Order codes</b>	SR310183xx
<b>Sort</b>	LTE Industrial Router
<b>Created, date</b>	Michal Hašek, DCE, May 25, 2023
<b>Authorized, date</b>	Petr Hanuš, PME, May 25, 2023

## Prediction Method

MIL-HDBK-217F-2, parts count

## Prediction Data

<b>Temp</b>	25 °C
<b>FR</b>	9233,3 FITS
<b>MTBF</b>	108303 hours, 12,4 years



<b>SF</b>	33 %
<b>MTBF final</b>	325236 hours, 37,1 years

<b>Op. Time T</b>	5 years
<b>Probability R(T)</b>	87 %
<b>R(T) in -25/+55C</b>	67 %

## Explanatory Notes

**Temp** – Temperature at reference conditions.

**FR** – Failure rate: It's the rate of product failures expressed as a function of time.

**MTBF** – Mean Time Between Failures is a prediction of a power supply's reliability.

**SF** – Severity factor: Degree of severity in the event of failure.

**MTBF final** – MTBF including Severity factor.

**Op. time T** – Operating time of interest.

**Probability R(T)** – Probability that the product will operate for the Op. time T without a failure.

**R(T) in -25/+55C** – Probability in specified interval.

This document is know-how of the Advantech Czech s.r.o. company. It may not be handed over to third person or abuse without permit.