

MTBF Report

Identification Data

| | |
|-------------------------|-------------------------------------|
| Name of device | SmartFlex |
| Order codes | SR304000xx |
| Sort | LTE Industrial Router |
| Created, date | Roman Peřura, PDE, April 2, 2021 |
| Authorized, date | Radomír Svoboda, DOE, April 2, 2021 |

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

| | |
|-------------|--------------------------|
| Temp | 25 °C |
| FR | 6968.2 FITS |
| MTBF | 143508 hours, 16.4 years |

| | |
|-------------------|--------------------------|
| SF | 33 % |
| MTBF final | 430956 hours, 49.2 years |

| | |
|-------------------------|---------|
| Op. Time T | 5 years |
| Probability R(T) | 90 % |
| R(T) in -25/+55C | 74 % |

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.