

Mean Time Between Failure (MTBF) Mean Time To Failure (MTTF) – Reliability Prediction

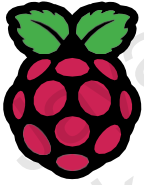
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This prediction has been calculated according to the model provided in MIL-HDBK-217F-2 and represents a Parts Count Reliability Prediction.

Mean Time Between Failure (MTBF)

<i>Product Name</i>	<i>Meant Time Between Failure</i>	<i>Meant Time Between Failure</i>
	<i>Ground Benign</i> <i>(Thousand Hours)</i>	<i>Ground Mobile</i> <i>(Thousand Hours)</i>
Raspberry Pi 3 Model B+	378	32
Raspberry Pi 4 Model B	211	27
Raspberry Pi 5	93.8	5.5
Raspberry Pi Compute Module	1750	320
Raspberry Pi Compute Module 3	1750	320
Raspberry Pi Compute Module 3 Lite	1950	350
Raspberry Pi Compute Module 3+	1750	320
Raspberry Pi Compute Module 3+ Lite	1950	350
Raspberry Pi Compute Module 4 (No Radio Module)	377	21
Raspberry Pi Compute Module 4 (Including Radio Module)	377	21
Raspberry Pi Compute Module 4 Lite	382	21
Raspberry Pi Compute Module 4S	394	26
Raspberry Pi Pico W ¹	183	11

¹ Raspberry Pi Pico W prediction includes component data different to that used in all other products.



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Mean Time To Failure (MTTF)

Product Name	Use Temperature and Confidence Level	MTTF (hours)	MTTF (years)
Raspberry Pi RP2040	55°C, 60% CL	9.25E+06	1055.9
	55°C, 95% CL	3.94E+06	450.1