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Discussion on Rugged Laptops and Computers by [James Blee](#)

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A rugged computer is a computer specifically designed to operate in harsh usage environments without any hindrance such as in strong vibrations or in extreme temperatures and in wet or dry conditions. They are designed to withstand the harsh conditions not just in the external built-up but in the internal components as well. In general rugged size and hardened computers share the same design, robustness and frequently the components can be changed and replaced.

Virtually all rugged computers available in the market follow the principle of providing a controlled environment for the installed electronics, in terms of design. The electronic components themselves may be selected for their ability to withstand higher and lower operating temperatures than commercial components. They have features such as fully sealed keyboards to protect against attacks by dust or liquids and scratch resistant screens that are readable in direct sunlight. Rugged units are more expensive compared to normal hardware cost..

There are many military standard rugged computers which undergo a large number of quality tests, for determining equipment suitability to suit military operations. Often used as a reference in commercial laptop industry, some of the machines establish an unparalleled military standard. They can withstand shock which applies to equipment mounted on ships. The rugged machines are also used in the police force, keeping in mind the large number of uses they can be put to and the conditions in which they have to operate. They are used for long periods of time inside the police cars, where they have no provision for electricity to work. The durability of the batteries in the laptops helps the individuals to use them for a longer period of time without any disturbance. These machines can be used for a wide range of activities like tracking down mobiles, to detecting the whereabouts of the prime suspects.

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