

Military-Rugged Electronics for Land Platforms, Unmanned Systems & Dismounted Applications

Drive ground combat vehicle program success with rugged computers and components that both maximize limited rack space and can endure the tough environmental conditions of the battlefield.

Since 1997, MilDef has designed, tested, qualified, manufactured, sold and globally supported rugged computing products specifically for military applications in the harshest environments.

The MilDef approach

MilDef structures all processes—from concept design to component sourcing, rapid prototyping and customization—to get military personnel the rugged electronics they need, when they need them.



In-house capabilities

Design

MilDef invests in the right people and tools for product design, development, and testing to continually improve product quality, reliability and performance.

As an OEM solely focused on the defense sector, MilDef has been able to selectively tailor design capabilities to meet precise customer requirements:

- Electronics
- Mechanical
- Printed circuit board layouts
- Customization (blueprint strategy)
- System integration (inclusion of MilDef products in a sub-system)
- Thermal analysis and passive cooling
- Ruggedization to latest military standards
- EMC/EMI protection
- Prototyping (3D-printed proof of concept or milled aluminum chassis)

Environmental/ EMI testing

Product design and testing to stringent, well-defined military standards (e.g. MIL-STD-810, MIL-STD-461) is a critical requirement of rugged hardware production for MilDef's customers. MilDef not only rigorously tests every finished product, but also the components that make up each finished product.

MilDef's in-house testing assets include:

- EMI/EMC test chambers for MIL-STD-461 CE102, RE102
- MIL-STD-1275 test equipment
- Temperature cycling and Ingress Protection test chambers
- Vibration, shock and drop testing

Manufacturing

MilDef manufactures all products in-house to maintain control over quality, BOM traceability, lead times and delivery. To ensure every product is ready to deploy straight out of the box, MilDef employs an automated test system, PTS (Production Test System), for final quality control with unique test reports for all units produced.

Supply chain / delivery

MilDef's supply chain management team is involved in every development initiative, ensuring component suppliers can meet ruggedization qualifications, quality and MilDef's 10-year production/sustainment lifecycle roadmaps.

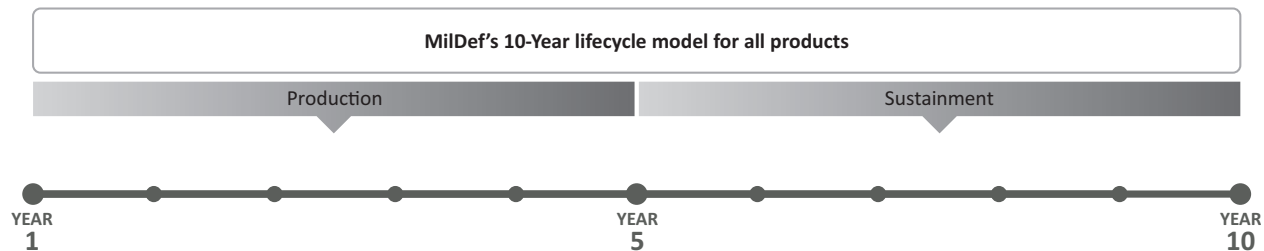
Project management

MilDef's resources, processes, and successful track record ensure efficient project management for complex new development or product customization on budget and schedule.

MilDef Rugged Products

Full product catalog available upon request

MilDef develops rugged IT products for use in demanding environments, where durability and functionality are of critical importance. Products are designed with a focus on long product life cycles and consistent form over generations, resulting in low total cost of ownership.



Overview

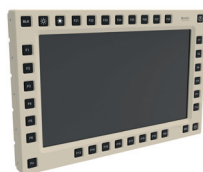
The MilDef suite of products includes small form factor computers and electronics, mobile computers, displays, panel PCs and special electronics, available out of the box. All products can also be tailored to customers exact specifications.



Small form factor



Mobile computers



Intelligent displays



Special electronics

Modular 19"/2® Small Form Factor Computing & Communication Systems

The 19"/2® product line offers a broad range of rugged small form factor computers and network equipment. The line's modular design, used as individual products, sub-systems or complete systems, allows for a building block approach in a wide array of applications.



Servers



Computer platforms



Network attached storage solutions



KVMs & extenders



Switches & gateways



Routers & firewalls



Power products



Mounting frames

MilDef Rugged Products

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Mobile computers

A complete line of rugged mobile computers, tablets and handhelds in varying screen sizes.



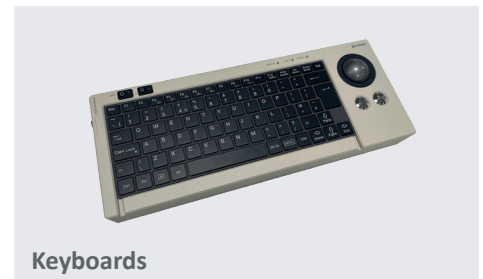
Rugged displays

A range of rugged displays and panel PCs for tactical applications. Utilizing modular back boxes MilDef's rugged displays can transform from a standard display to a panel PC with a quick swap. Sizes range from 10.4" to 40".



Special electronics

MilDef supports customer projects which require specialized rugged electronics not based on any standard product segment.



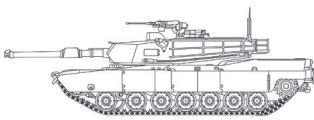
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MilDef military-rugged computers are designed and tested to ground-based requirements so they can be reliably used in tracked combat vehicles, wheeled vehicles, command posts, and dismounted operations.

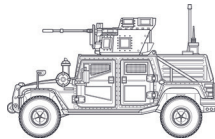
- Standalone products or integrated systems
- Mission computers/servers, routers, switches, power, storage
- Intelligent displays ranging from 10" to 40"
- Ruggedized laptops, tablets and handheld devices
- Controllers for unmanned systems operations

Platforms

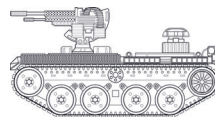
Track



Wheeled



Unmanned



Dismounted



MilDef products

19"/2" (small form factor)



Laptops, tablets, handhelds



Intelligent displays



Special electronics



Examples of mission systems

Multi-function operator displays



KVM; keyboard & trackball



High performance, high density computers; scalable network-attached storage



Fully managed copper/fiber ethernet switch



Examples of mission solutions

Operator console



Half rack case



Small form factor server rack



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