

RUGGED, CONFIGURABLE COMPUTING

Military grade Laptops, Tablets and Processors tailored to suit your project requirements and qualified to withstand the harshest environments.

The logo for GRID, featuring the word "GRID" in a bold, orange, sans-serif font. The letters are thick and blocky, with a slight shadow effect. The background of the entire image is a blue-tinted photograph of a soldier in camouflage gear and a helmet, looking down at a laptop computer in a field setting. The image has a grid pattern overlay and a dotted pattern in the top left corner.

GRID

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ABOUT GRiD

For the last 28 years, all of us at GRiD Defence Systems have been providing the defence industry with the most rugged laptops, tablets and hardware that they can get their hands on. We are firm believers that the unique environments the defence industry operates in requires specialised equipment that they can rely on no matter what. It is this belief that keeps us moving forwards with our innovation and tirelessly working to provide the most rugged and reliable kit that we possibly can.

We like to go further than anyone else when it comes to providing the perfect equipment for the job, which is why all of our products are fully customisable. No matter the project, we can (and will), ensure that our products are purpose built for your requirements. We provide flexibility in everything that goes into the device, from tailoring the performance and integrating additional hardware to offering a huge range of military class circular connectors to integrate any interface you need to.



FOUNDED
1993



LOCATION
UK



SERVICING
MILITARY AND
AEROSPACE



PRODUCTS
LAPTOPS, TABLETS
& PROCESSORS

ACCREDITATIONS

"The context of the organization is well defined; leadership has been effectively demonstrated and commitment levels are evident.

This is reflected in the levels of compliance with requirements and operational controls evident at the organization during the audit process. There are effective links between the company's policy for quality, the objectives set and the processes used to provide conforming products to its customers and their end-users.

As sampled today, documented information was available during the audit to confirm that the QMS is well implemented and conformity to customer and end-user requirement confirmed. There are effective controls in place to ensure that these requirements are translated accurately to those assembling and testing the company's range of rugged computers. Traceability within the system elements viewed is excellent. Discrete elements of the QMS work well together."

NQA, External Auditor



CLIENTS

At GRiD we have the pleasure of working with a mixture of both Government and Multi-National Organisations across the Defence and Aerospace industries.

We work as partners with, and suppliers to, the leading manufacturers and prime contractors throughout both industries. Our aim is to provide every single one of our clients with the perfect solution, tailor made to their individual project requirements.

Our pre-sales support is provided through a consultative approach to ensure that our customers get the best possible device for their needs.



BAE SYSTEMS



AIRBUS



Rolls-Royce



**Ministry
of Defence**

THALES



CLIENTS

"GRiD Defence Systems have supported CGI UK Limited in the supply, maintenance and repair of the GRiDCASE 1510 which is used as the Indirect Fire Ballistics Calculator as part of the Fire Control Application for the UK MOD. In 2013 Over 550 units and Accessories were supplied and are still being supported by GRiD. During this time GRiD have supported CGI in repairing any damaged GRiDCASE 1510s in contracted short turnaround times, managing obsolescence issues that may arise over the warranty period and, when a requirement arises, supplying additional hardware to the exact same specification as supplied originally.

GRiD have supplied Maintenance Packs to MOD Donnington so that minor repairs can be carried out by the User. GRiDCASE 1510 Spares are stored in a Bonded Store onsite at GRiD to ensure 4th Line Repairs are turned around as quickly as possible.

GRiD have been supportive, professional and easy to deal with in all aspects of our contract. The end user "is over the moon" by the performance of the GRiDCASE 1510."

Spike Bell, CGI UK LTD

The CGI logo consists of the letters 'CGI' in a bold, red, sans-serif font. The 'C' and 'G' are connected at the top, and the 'I' is a simple vertical bar.

Experience the commitment®

APPLICATIONS

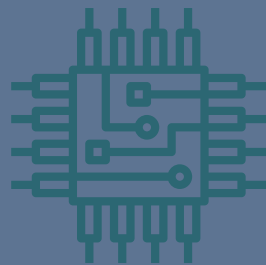
AVIONICS

VEHICLE

LAND

MARITIME

TEST & MEASUREMENT



AVIONICS

GRiD manufacture ATEX and TEMPEST Rugged Laptops, Tablets and Servers for use on the flight-line and in-air applications. Our products are fully configurable and designed to include external peripherals within the main body of the unit, such as Fibre Optic and Media Converters, Ethernet Switches and even customer's own bespoke electronics.

By encompassing external peripherals within the main body of the hardware, the overall risk for potential FOD, damage and Radiated Emissions is greatly reduced as well as significantly reducing logistics overhead. GRiD products are able to connect directly to aircraft via the 1553, ARINC 429 or STANAG 3910 Bus and contain multiple expansion slots for custom cards and electronics. They are also able to integrate the AC/DC Avionics Power Supply and contain all the necessary filtering required to comply with MIL-STD-704, enabling the Hardware to plug directly into the aircraft without the need for a power supply in-between.

Advanced internal filtering allows our products to plug directly into the Aircraft Power Supply (meeting MIL-STD-704) so that maintenance tasks can be undertaken, alongside platform analytics and data transfer which can be carried out by a GRiD computer directly.

We are used as Data Bus Test Equipment, Mission Planning Systems, Data Loaders and Systems Analysis Tools. We supply the complete solution for any Avionics Ground Support Equipment application including the Computer, Cabling, Peripherals and Hard Transport Case.

VEHICLE



GRiD manufacture fully sealed, qualified, Rugged Laptops, Tablets and Servers for in-vehicle and quick-deploy applications. The GRiDCASE product range is designed with no moving parts and sealed to a minimum of IP67 and in some cases IP68.

Selected products have been tested to comply with Def Stan 59-411 for EMC and configured to withstand harsh environmental requirements such as Tracked Vehicle Vibration, Shock and variable temperature fluctuations from -40°C to $+71^{\circ}\text{C}$ Operating.

Our products are also able to accept a DC input range of 9-36V and are compliant to the military vehicle standard MIL-STD-1275.

All of our products are designed to fit within vehicle Mounting Brackets and if required, we can adapt existing Hardware mounting points to fall in line with specific customer configurations. All quick release Brackets and Cradles allow devices to be swiftly mounted or dismounted on the go, letting you adapt to the changing mission demands and circumstances as they happen.

Our devices are currently used as BMS (Battlefield Management Systems), Situational Awareness, Weapons Systems, Test and Measurement Tools and Ballistic Calculators.

LAND

The GRiDCASE range of portable, man-worn rugged hardware is designed for use in the deployed environment to run Situational Awareness, Reconnaissance, Surveillance, Targeting and Force Protection applications. All of our portable rugged Laptops, Tablets and Servers contain Hot-swap Batteries to ensure a constant power source during mission-critical times, whilst also being able to maintain an extremely low EMC profile.

Our light-weight Laptops and Tablets were created specifically to be worn/carried on the person. Whilst reducing the overall size and weight of the product range, we continue to implement the same sealing and design principals that ensure our products remain rugged and able to meet necessary Defence and Military Environmental and EMC Standards.

We sought advice from those who would be using the Hardware and designed products based on this input from end-users. Details such as the small (5.6") size of the GRiDCASE 1510 Rugged Laptop, specifically manufactured to fit within standard uniform webbing and the full IP68 sealing of the unit were borne from detailed discussions with those on the front line.

All of our products use Resistive Touchscreens which rely on pressure rather than capacitance to detect a touch. This means that a gloved hand can be used (reliably) to interact with the Hardware as well as a stylus, human finger, pen or literally any type of item will register a touch. Resistive Touchscreens are also fully operational in the rain and do not emit any EMI radiation.

MARITIME

GRiD manufacture fully-sealed, Rugged Laptops, Tablets and Servers for use both Above and Below Decks on Submarines, Surface Ships and RIBs. Qualified to DEF STAN 59-411 and MIL-STD-461 for EMC and DEF STAN 00-35 and MIL-STD-461 for Environmental, our product range is resistant to Salt Fog whilst fully Sunlight readable in bright light.

Unlike commercial-rugged products which are subject to regular revision updates, we are able to provide the exact same configuration of product for at least 10 years after it is first purchased, often for up to 20 years. This saves not only the qualification and paperwork processes involved in bringing new equipment onto maritime platforms but also the time and money associated with upgrading platform architecture to accept a new device (cabling, mounting brackets etc).

We offer Extended Warranty Contracts for up to 25 years and have dedicated Obsolescence Management Services available to ensure that Hardware is supported for the long-term. Our products are also modularly upgradable should there be a need to revise or update the current system without the need to purchase new hardware.

Our products use custom displays to ensure that they are fully sunlight readable in bright light while retaining the ability to immediately cut to black in a single button press which provides the user with greater control when the device is used in covert environments.

TEST & MEASUREMENT

The unique way in which our products are designed makes them a perfect platform for Test and Measurement applications, including on the Flight-line, for Munitions, in Vehicles, as Data Loaders and on Maritime platforms. Our products are fully configurable and have an array of interfaces available as standard but when extra or unique interfaces are required, they have the ability to be expanded upon using multiple expansion or add-in cards.

Our products have more expansion capability than any other Military Computer manufacturer. Expansion Cards, coupled with the ability to install any Connector, allows for a perfect one box solution for all of your Test and Measurement needs. All of our products are fully sealed, conductively cooled and contain no moving parts, even when all of the expansion cards are installed.

It is easy for us to integrate customer own electronics as all of the Mechanical and Electrical Design is carried out by our in-house Engineering Team. We work with our customers using Solidworks 3D Computer-Aided Design (CAD) Software to help house their own PCB's, Modules or Adaptors whilst still maintaining our fully sealed chassis and Environmental and EMC compliance.

Our products are currently used as Data Bus Test Equipment, on-board system HMI, HUMS (Health and Usage Monitoring System) for vehicles, aircraft and munitions as well as Data Analysis Tools. We supply the complete solution including the Rugged Computer, Interface Cables, Hard Transport Case and Qualification where required.

PRODUCTS

RUGGED LAPTOPS

RUGGED TABLETS

RUGGED PROCESSORS

RUGGED ACCESSORIES



RUGGED LAPTOPS

We pride ourselves on creating the most rugged devices on the market. That's why whether you are using our hand held 5.6" devices, designed to be used anywhere, or our top of the range units housing 19" displays suitable for Mission Planning Systems, you can be confident that the same attention to detail and in-depth design process has been applied to every device that leaves our workshop.

Our Laptop range provides you with the perfect option whether you are after a small, medium or large display. They are fully configurable inside and out with connectors and interfaces custom built to suit individual projects and meet specific requirements no matter the environment you need it for.

Every one of our Rugged Laptops is qualified to the most stringent Military and Defence standards for both EMC and Environmental. With a selection of our devices capable of operating in ATEX and TEMPEST environments as well as utilising iButton readers and Encrypted Hard Drives you can rest assured that safety and security is our top priority.



RUGGED TABLETS

With display screens ranging from 5.6" to 15", our Rugged Tablets can be utilised across any programme. As with the rest of our Rugged devices, our Tablets are fully qualified to Military and Defence standards for EMC and Environmental, meaning that whether you need a small device to provide extra display functionality inside a cockpit or a large tablet to use for mapping software our Rugged Tablets can be slotted into your system without any hassle.

Similarly with the rest of the GRiD product range, our Rugged Tablets can be fully customised with unique interfaces and connectors. Our Tablets are designed with full Microsoft Windows or Linux operating systems, providing the power of a large device in a much smaller platform, complemented by either single or multi-touch resistive touchscreens to ensure safe operation in wet conditions.

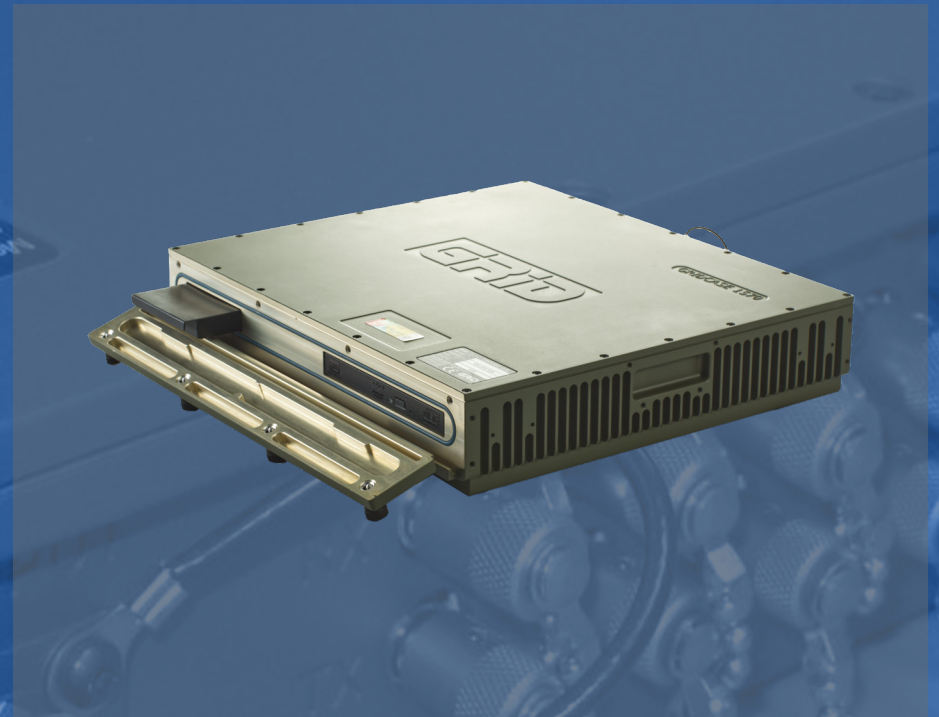


RUGGED PROCESSORS

High powered and completely configurable, our Rugged Processors are designed to be used anywhere. Designed with ease of use in mind, our Processors are easily mountable, whether that be in standard 19" server racks, naval vessels, aircraft or passenger vehicles. The Chassis has multiple mounting points to fit into any system.

Our Rugged Processors come with unrivalled expansion capabilities, with space for 3 PCIe cards, 3 PCI Cards, 4 PCI-104 cards or 5 Mini PCIe cards which allows you to easily interact with multiple interfaces from a single device, providing an all-in-one solution for any situation.

When safety and security are paramount the fully sealed, aluminium chassis and removable hard drives ensure that our devices can be used in even the most sensitive environments.



RUGGED ACCESSORIES

Our wide range of Rugged Accessories perfectly compliment our Rugged Devices and provide the most effective way to complete your comprehensive Rugged System.

Whether you are looking for better ways to transport your devices to keep them safe and minimise the risk of accidental damage or simply need to expand upon the functionality of GRiD Rugged Computers with external equipment, you can rest assured knowing that our Rugged Accessories are designed with quality and adaptability in mind.



GRiD

RUGGED, CONFIGURABLE COMPUTING.

GRiD DEFENCE SYSTEMS

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