



RUGGED PORTABLE COMPUTER SOLUTIONS



“For when the going gets BEYOND tough!”



OVERVIEW

Rugged portable computer solutions since 1994

Opentec Solutions is a division of Sydney-based electronics company, Inventis Technology Pty Ltd. Opentec's primary line of business is the design, assembly and customisation of Commercial, Industrial and Military Rugged portable computers and computer-based solutions.

We're Australia's original dedicated rugged computer supplier. We developed and deployed the first generation of 'Military Rugged' portable computers for the Australian Army in the 1990s, at a time when few manufacturers had even heard the term 'rugged computer'. Today, when many still consider rubber corner protectors, a water resistant keyboard and port dust covers to be all that's required to create a 'ruggedised' computer, we continue to deliver products into environments notorious for destroying other vendors' products.

Opentec helped pioneer the fanless Magnesium Alloy chassis design, double-sealed ports, and user-removable critical components such as hard drives and batteries, as well as daylight readable LCDs. We even developed the ultra-low emission ('stealthed') electronics demanded by Australian Defence forces for battlefield applications, that no other vendor has been able to equal.

In short, we helped define what a 'rugged' portable computer really is.

Today, the industry-leading durability of our products, coupled with our innovative approach to creating computer-based solutions, is helping businesses and government agencies set new benchmarks in productivity improvement by delivering new solutions to on-going and emerging needs.

Best of all, our local engineering, industrial design and fabrication capabilities are helping Australians create solutions that no off-the-shelf product can. Little wonder we remain the preferred supplier to many heavy industrial and defence customers who demand not only high levels of reliability, but local servicing, support and innovation.

So when a 'merely toughened' office grade product won't do the job, or when a customised solution to your mobile computing application is needed to keep you on the move, then talk to the company that has been helping keep mobile computer users mobile since 1994.

Opentec - for when the going gets BEYOND tough!

Core Markets

Military:	Army, Air Force, Navy, Coast Guard
Government:	First Responders (Police, Ambulance, Fire, Rescue), Border Protection, Security/Intelligence, Councils
Heavy Industrial:	Mining, Rail, Manufacturing
Commercial & Industrial:	Workforce Automation, Field Service
Transport & Utilities:	Power, Water, Electricity, Logistics

WHY OPENTEC?

- Developed 1st generation of Military Rugged products in mid-1990s
- Primary supplier of Combat Rugged products for Australian Army 'Battlefield Command & Control Systems' since 2000
- Proven track record in some of the most hostile environments on earth
- Local electronics engineering, product servicing & technical support
- Local customisation
- High-level integration skills
- A partner program that fosters indigenous capability and high local content



PRODUCTS

COMPUTERS & ACCESSORIES

We supply a proven range of 'best in class' products, including:

- **Notebook Computers**
 - Commercial Rugged rated models (**IPC Series**)
 - Industrial & Military Rugged rated models (**RPC Series**)
 - Standard & convertible (swivel screen) designs
 - Daylight readable LCDs & ULTRA toughened touchscreens
- **Tablet Computers**
 - Commercial Rugged rated (**IPT Series**)
 - Industrial & Military Rugged rated models (**RPT Series**)
- **Ultra-Mobile PCs/UMPCs & PDAs**
 - Industrial & Military Rugged rated models (**RPDA & RPT Series**)
- **Portable, modular Local Area Network solutions**
 - Military Rugged rated (**19/2 System**)
- **Complete-of-the-shelf (COTS) & customised mounting systems & rugged transport cases**



Visit our website to see our complete range:
opentec.com.au/products

DESIGN, SERVICING & CUSTOM ENGINEERING

We provide a high level of local electronics engineering support and carry out all repairs and customisation locally using qualified, experienced staff. Not only are we ISO 9001:2008 accredited for manufacturing and design processes, we're able to carry out defence system inspections to IEC 610 Class 3 levels. Services include:

- **Full system servicing & repairs**
- **Customising ports**
(including serial, Industrial Ethernet, MIL-Circ style)
- **Engineering ruggedised enclosures**
(e.g. for non-ruggedised electronics sub-systems embedded in or as part of a ruggedised portable computer solution)
- **Building custom mounting systems**
(e.g. for vehicles or boats)



We are also Australia's only **General Dynamics Itronix 'Authorised Service Provider' (ASP)**.



CAPABILITIES

SYSTEMS INTEGRATION

We supply a range of world-class integrated systems including:

- Rugged **computer sub-systems** for:
 - vehicle-borne systems
 - combat systems
- Wearable **Tactical Computers**
 - Industrial & Military Rugged rated
 - tactical radio & GigaLAN interfaces
- **Multi-Modal Biometrics** systems
 - Industrial & Military Rugged rated solutions addressing fingerprint/latent print, facial & iris scanning & verification
 - Handheld solutions (**DuoMetrics & Triometrics**)
 - Portable solutions (**Border-In-A-Box**)
 - integrated secure communications for accessing remote AFIS/ABIS



PARTNER SOLUTIONS

Opentec founded the **AUSortium™**, which is an Australian led collective of teaming partners working together to create and deploy ruggedised, computer-based solutions for a wide range of industrial, security and defence applications, including:

- GIS (Geospatial Information System) applications
- Secure Computer Communications solutions including FIPS140, Type 1, & Suite A / Suite B compliant systems
- Wearable Information/Tactical systems for field service, enforcement, emergency responder & defence/combat applications
- Combat Rugged C4/ISR Systems



The **AUSortium** collective is unique in that it is the only Australian teaming group to have been granted 'Prime Contractor' status by the Australian Department of Defence for speciality computer, communications and security projects. This is in recognition of the native capabilities and significant local content offered by the group.



WHAT IS 'RUGGED'?





Why categorise 'rugged' devices?

A set of industry standards exists to guide buyers when assessing a product's suitability for a range of applications. The standards most commonly referred to were developed by the US Department of Defence to rate performance with respect to a range of parameters, including resistance to vibration, impact, dust and moisture (covered by MIL-STD 810G), resistance to electro-magnetic (EM) interference and 'eavesdropping' (covered by MIL-STD 461E), and even daylight readability of a display in full sun (MIL-STD 3009).

Unfortunately, there is a common mis-conception that meeting any one of these standards - even the lowest level of one - makes a product 'military standards compliant' and therefore 'RUGGED'. The reality is that the standards address non-military applications, including office and warehouse use and that being 'MIL-STD compliant' is no guarantee a product even qualifies as what we would consider 'RUGGED'; let alone is suitable for a specific application requiring specific levels of durability.

THE OPENTEC CLASSIFICATION SYSTEM

To clarify things, Opentec created a rating system, that relates the performance of various aspects of a device to a range of general applications. Simply check the Application Level that is applicable to your needs, then select the products in that range.

COMMERCIAL	INDUSTRIAL	MILITARY	
<p>SEMI/VEHICLE RUGGED</p> <p>Suitable for in-vehicle &/ or occasional outdoor use</p> 	<p>FULLY RUGGED</p> <p>Suitable for extended use outdoors</p> 	<p>SUPER RUGGED</p> <p>Suitable for off-road or extended outdoor use in high vibration/impact/moisture, extreme temp conditions</p> 	<p>COMBAT RUGGED</p> <p>As per Super Rugged, but with enhancements for extreme combat or EW applications</p> 
<p>Standards:</p> <ul style="list-style-type: none"> - Lower levels of MIL-STD 810G tests - IP54 & above <p>Applications:</p> <ul style="list-style-type: none"> - Warehouse Inventory/Dispatch - Mobile Workforce Automation - 'Electronic Flight Bag' 	<p>Standards:</p> <ul style="list-style-type: none"> - Mid to higher levels of MIL-STD 810G test - IP54 & above <p>Applications:</p> <ul style="list-style-type: none"> - First Responders - Field Maintenance 	<p>Standards:</p> <ul style="list-style-type: none"> - Higher levels of MIL-STD 810G - Mid levels of MIL-STD 461E - IP54 & above <p>Applications:</p> <ul style="list-style-type: none"> - Coast Guard - Border Patrol - General C4/ISR Operations 	<p>Standards:</p> <ul style="list-style-type: none"> - Higher levels of MIL-STD 810G - Higher levels of MIL-STD 461E - IP54 & above <p>Applications:</p> <ul style="list-style-type: none"> - Stealthed /Secret C4/ISR Ops - Battlefield Command & Control

MORE ABOUT THE STANDARDS

To discover more about the standards, visit our website: opentec.com.au/rugged/standards.shtml



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ABOUT INVENTIS TECHNOLOGY

Inventis Technology is a Sydney based electronic control systems designer and manufacturer. We've been creating and delivering innovative control, management and safety solutions to electronics OEMs, emergency services, police, defence and many enterprise and government customers for more than 20 years.

Our brands include SafeZone (driver & pedestrian advance warning systems), PNE (electronic control systems for OEMs), Impart (motor vehicle control systems), EAS (emergency alert siren beacon systems) and Opentec (rugged portable computers and computer-based solutions).

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