Panasonic

Red Hat

TOUGHBOOK

TOUGHBOOK and Red Hat

Powering Defence Operations at the Mission Edge

Military operations demand uncompromising reliability, security, and flexibility.

TOUGHBOOK is the only rugged device certified for Red Hat Enterprise Linux (RHEL), delivering a COTS+ solution designed for **decision dominance**, **resilient operations** and **seamless interoperability**.

Overcoming Evolving Challenges Facing Defence Technology

Digital operations within the defence sector play a vital role in supporting everyone from mobile troops entering the heat of battle, to logistics and supply chain management. But deploying and managing IT systems for military use comes with an evolving set of challenges.

- **Decision Dominance**
  Military personnel need the power of **AI** and **Edge** computing to access and process mission-critical intelligence to accelerate decision-making in the field.

- **Operational Resilience**
  Missions occur in unpredictable, extreme environments, where technology must remain fully operational, even in remote locations.

- **Seamless Interoperability**
  Defence forces operate across multi-domain networks, requiring seamless interoperability between devices, platforms, and command centres.

TOUGHBOOK with Red Hat combines military-grade durability and enterprise-level security, delivering a robust and reliable computing solution built to empower frontline users and IT administrators in the most demanding defense environments.

Rugged Design

TOUGHBOOK is built to withstand shocks, drops, vibrations, and extreme weather, ensuring operational continuity in even the most challenging terrains and environments.

Enhanced Security

Red Hat ensures cyber resilience with SELinux, FIPS 140-2 and STIG compliance, while TOUGHBOOK enhances data security with removable SSDs, safeguarding military data.

Seamless Integration

TOUGHBOOK Modular design and open-source Red Hat enable unified platform, Cloud, Edge computing and Air-Gapped operations and seamless integration.

Optimised Performance

Our dedicated engineers provide performance tuning and long-term system maintenance, to ensure peak efficiency throughout the device lifecycle.

For Today's Mission-Critical IT

For defence forces and supporting organisations developing bespoke technologies for combat and emergency response scenarios, Red Hat is the tactical platform to run high-performance applications in a secure environment.

Whether supporting existing infrastructure or deploying new capabilities, TOUGHBOOK and Red Hat provide a proven foundation for defence applications.

Command and Control

With Red Hat, TOUGHBOOK devices offer secure boot and enterprise-grade encryption, ensuring critical data is always protected. It supports real-time application updates, reducing downtime and accelerating deployment, allowing seamless tactical coordination and reliable communication with command centres.

In-Vehicle Applications

TOUGHBOOK is resilient to shocks and vibrations, with vehicle solutions and specialised military modules making it easier for users to connect between platforms, enter data, and report back from inside a vehicle. Red Hat provides the high-performance data processing and operational flexibility, while containerisation of applications allows for efficient and secure mobile deployment.

Secure Battlefield Communications

TOUGHBOOK rugged devices ensure data integrity and keep personnel connected in all conditions. Red Hat secures battlefield communications with features like SELinux and encrypted file systems, while advanced cybersecurity measures prevent breaches and ensure compatibility with mission- critical systems.

Frontline Operations

From coordinating operations in covert positions to servicing vehicles at the home base, frontline personnel need to securely connect to a variety of applications, equipment, and systems. TOUGHBOOK and Red Hat combine modular design, scalability and connectivity with the power to handle large datasets and run critical applications in extreme environments where performance cannot be compromised.

Panasonic

Red Hat

TOUGHBOOK

Why TOUGHBOOK and Red Hat?

Uncompromising reliability, security, and flexibility.

Built for mission-critical operations, TOUGHBOOK and Red Hat provide a secure, scalable, and high-performance computing platform for defence forces. TOUGHBOOK's modular, rugged design ensures reliability in extreme conditions, while Red Hat's platform delivers advanced security, cloud and edge computing capabilities, and seamless scalability. Together, they enable military personnel to process and share critical data securely, maintain operational readiness, and adapt to evolving mission demands.

Enhanced Security and Compliance

The Red Hat certification ensures a secure IT environment with a transparent and auditable software supply chain, so that software updates, including mission-critical applications like drone control systems, meet stringent military security standards.

Operational Agility and Edge Computing

With support for strategic core, cloud, deployed edge, and tactical edge scenarios, TOUGHBOOK devices running RHEL gain a seamless, scalable and unified platform, so users can collect, process, and act on data in real-time, even without connectivity.

Long-term Reliability and Support

Red Hat guarantees long-term support for up to 10 years per major release, aligning with military procurement cycles. While TOUGHBOOK's rugged durability and life cycle over five years with 2 years extended warranty, ensures mission continuity and hardware and software compatibility.

Maintenance and Optimisation

TOUGHBOOK provides local engineering support, giving military customers expert assistance to minimise downtime and ensure optimal field performance.

Learn More from Our Experts

Get in touch with our team to learn more about TOUGHBOOK and Red Hat for military deployment.

GLEN FIGALLO
Business Development Manager & Defence Specialist
Toughbook Australia and New Zealand
0439 769 776

Email: toughbook@au.panasonic.com