FUJITSU

Deployed infrastructure (DSEI module)

Innovative hardware solutions for Deployed and Maritime Operations

Extreme environments demand exceptional reliability that you can trust when it matters most.

Deployed and Maritime Operations often expose your IT resources to some of the most extreme environments on the planet. But the process of tempesting and ruggedising all of your IT equipment to make it suitable for such extremes is an expensive and time-consuming process, often using outdated technology. While this process is often necessary, it is not always required, and a more flexible pragmatic solution can realise significant savings.

Fujitsu understands this requirement intimately. Working with our own hardware and an established network of trusted, specialist suppliers we ensure we deliver the right hardware solution for the environment in which it will be operated. Our broad range of technology solutions are trusted by Defence & National Security Services around the world.

We deliver reliable, trusted, innovative solutions that support domestic and deployed IT installations in some of the most challenging environmental conditions on the planet.

We also understand when COTS products in specially modified secure containment are appropriate. But we are also proud to recognise the vital role SME suppliers play within the Defence sector and continue to build our extensive network of specialist SME suppliers. These providers of specialist hardware frequently deliver the best solution to the challenging scenarios we face in the deployed and maritime space.
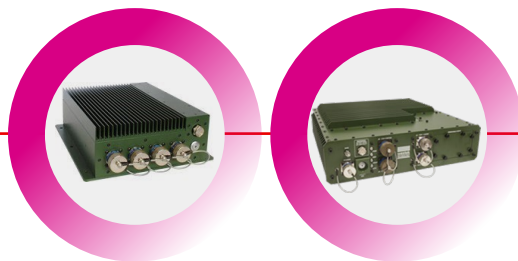
Our broad range of technology solutions are trusted by Defence & National Security Services around the world.

Here is a selection of the partners Fujitsu works with to ensure we always deliver the right hardware solution for the environment it will be operated in, to address our customer's most challenging deployed and maritime infrastructure requirements:

Westek Technology

Westek Technology, a member of tpgroup plc, is a UK designer and manufacturer of highly customisable rugged servers, utilising the latest server class Xeon CPUs, GPU processors, data storage systems, ethernet switches, uninterruptible power supplies and displays. Fujitsu selected Westek based on its enviable, long-standing reputation of successful deployments of bespoke rugged servers in harsh environmental conditions. Westek Technology designs and manufactures a wide range of high quality, high availability rugged military and industrial servers along with RAID data storage systems.

All Westek equipment is specifically designed for high reliability applications in telecom, datacom, security, military COTS and mission-critical commercial IT environments. They also have extensive experience developing bespoke solutions and formally qualifying hardware to industry military standards for land, sea and air environments. High-grade data encryption solutions and enhanced EMI performance such as TEMPEST are also available. Westek is proud to support Fujitsu with a range of customisable rugged IT hardware for use with their new deployable information and communications capability.

Amulet Hotkey

Fujitsu partners with Amulet Hotkey as they are the world's only supplier of zero client laptops certified as secure by the UK Government and NATO NIAPC listed. This level of certification allows government, public sector, as well as security conscious enterprise to leverage the security and rich desktop experience of Amulet Hotkey PCoIP zero clients when connecting to remote 3D graphics workstations, virtual workstations or virtual desktops and cloud-managed desktops.

Amulet Hotkey customers include local and national governments, command and control centres, emergency call centres and a variety of defence-related applications on land, sea and in the air. Working with Fujitsu over the past few years has enabled Amulet Hotkey to gain better coverage within UK MOD and other defence-related departments.
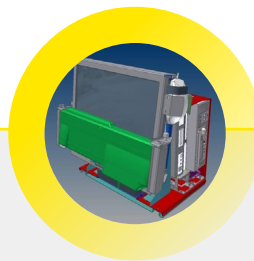
Unique Maritime Deployments

For almost two decades, Fujitsu has been responsible for the installation of IT hardware for the Royal Navy, including NavyStar, DII (Afloat) and more recently NSoIT (Deployed) computer equipment on all Royal Navy vessels. During this time, Fujitsu has performed over 300 full vessel installations ranging from minehunters to aircraft carriers, fleet tankers to submarines, and all have been delivered on time and to the required standards.

Our highly experienced design engineers utilise lessons learnt from the Fujitsu installation team to develop rugged mounts that are specifically tailored to the unique vessel environment. These custom-designed mounts ensure COTS equipment can still be deployed in such a unique environment whilst being unobtrusive, robust, fit-for-purpose and cost-effective.

Once the rugged mount specification is finalised and evaluated for different vessels, the Fujitsu design engineers are extremely well experienced in partnering with various environmental testing suppliers to successfully obtain accreditation for EMC conformance, magnetic and physical shock compliance or FEA shock analysis for this equipment. Once accredited, the equipment can confidently be installed onboard the vessel ensuring safety for the crew whilst not impacting the other onboard systems, either electronically or magnetically.

With Fujitsu's vast experience, it is possible to utilise the benefits of commercial hardware within the bespoke maritime environment, without the cost implications or technology lag that a bespoke solution often brings – adapting the ordinary for the extraordinary maritime environment.

Fujitsu Servers

For more than 25 years Fujitsu has been building high-performance, quality hardware. Fujitsu PRIMERGY servers provide computing power that is fit-for-purpose now and into the future. They are designed to deliver more compute and storage capacity, highest performance, right-sized options with flexible choices, while providing lower energy consumption to reduce the costs of IT service.

The industry-standard x86 servers provide your business with the most powerful and flexible data centre solutions on the market for companies of all sizes, across all industries and for any types of workload.

Fujitsu servers deliver:

- Business-proven quality, leading to extremely low annual failure rates and continuous operation with almost no unplanned downtimes
- More performance in daily operations in order to maximise IT as a business advantage with up to 45% less effort
- Highest efficiency cutting operational cost and complexity by up to 50%, helping to accelerate IT workloads and shorten time-to-business results.

Fujitsu Client Computing Devices

Fujitsu has owned the full end-to-end product lifecycle of its client computing device portfolio for 30 years and prides itself on the durability of its desktops, laptops and thin clients. Through designing, testing, building and servicing our own machines, we are able to deliver a complete offering. All of our client devices are subjected to a series of rigorous tests that replicate a standard business usage scenario over a 5-year lifecycle.

Referred to as a Highly Accelerated Lifecycle Test, or HALT, these tests consist of climatic, vibration, drop, electromagnetic, acoustic, pressure, abrasion, hinge, and packaging tests.

In addition to HALT testing, we also send our business-user focused mobile devices for independent MIL-STD-810G certification. This series of tests designed for the US military examine equipment limits in various conditions including altitude, low/high temperature, humidity, shock, vibration, dust and drop.
Such rigorous assessment ensures the durability and reliability of our devices are truly industry-leading.

Why Fujitsu in Defence & National Security?

Our world is being disrupted. But together with you, Fujitsu's ambition is to build a brighter, more sustainable future for us all.

We want to work together to navigate this digital disruption collaboratively, and explore solutions to the evolving threats we face today. Together, we can exploit technology that will drive high-impact improvement, transform our digital future, and help to make us more sustainable in every way.

We can do this by harnessing technologies such as AI, machine learning, digital twin, quantum, and high-performance computing. Our vision uses the power of everyone, bringing together our integration capabilities and knowledge in managed services with cognitive and advanced technologies that will drive your digital transformation. By elevating people higher up the value chain allows the smartest ideas to emerge to tackle tomorrow's big challenges today – whatever they may be.

With our technological inspiration and business vision from Japan, we touch the lives of millions of people around the world every day. For over 60 years, we've been working at the highest levels of security demanded by militaries, governments, and industry to ensure the UK's most critical infrastructure operates smoothly, 24/7.

We've continually had to adapt to a changing world, and we will keep evolving in the face of future threats. We are diverse, creative, talented, and different. And we are committed to building new possibilities for everyone. By connecting people, technology and ideas, we are making the world more sustainable by building trust in society through innovation.

Contact

+44 (0) 870 242 7998
askfujitsu@fujitsu.com
Ref: 4153
uk.fujitsu.com