

# STEATITE

COMPUTING - POWER - COMMUNICATIONS

A Solid State Group Company

COMPUTING

BATTERIES

COMMUNICATIONS

ANTENNAS & SUBSYSTEMS

ELECTRONIC MONITORING



TECHNOLOGY FOR EXTREME ENVIRONMENTS



COMPUTING



BATTERIES



COMMUNICATIONS



ANTENNAS &  
SUBSYSTEMS



ELECTRONIC  
MONITORING

## COMPANY OVERVIEW

Established in 1938, Steatite is a market leader in the design, development and supply of rugged and industrial computers, custom lithium battery solutions, secure communication systems, antennas & subsystems, and electronic monitoring solutions.

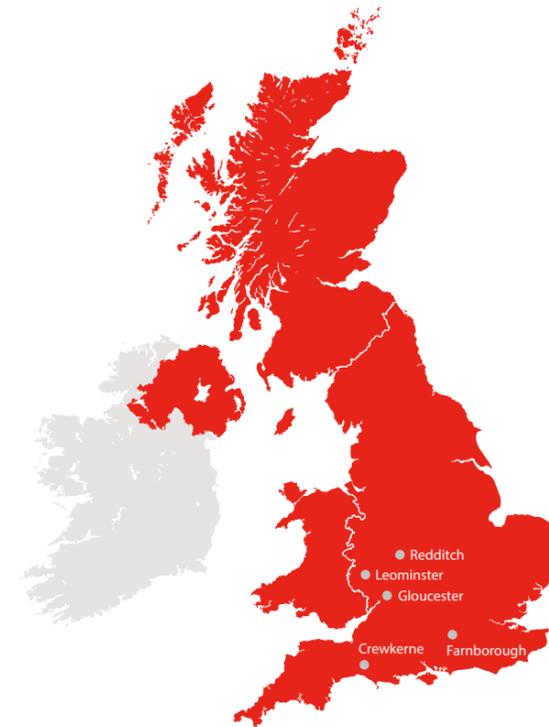
Over the years we have developed a first class reputation for providing solutions that precisely meet the operational demands of our customers. Custom engineering is at the heart of our business, with dedicated in-house teams supporting clients by designing, manufacturing and testing the most advanced range of products and systems tailored to specific application requirements.

Quality is a key driver and we are ISO 9001: 2015 certified. Security-cleared individuals and facilities are complemented by a strong engineering and design capability, with an in depth knowledge of CE, UK DEF STAN, American MIL-STD, NATO STANAG and UK, European and American TEMPEST standards.

As an innovative, technology driven company, we play an active role within the scientific community, driving ground breaking research and development projects designed to

devise new technologies that operate at the very limits of technical capability.

Headquartered in Redditch, at the heart of the UK's transport and communications network, Steatite operates a secure 26,000 sq ft site dedicated to design, engineering, manufacturing and service support.



In addition to our main Redditch site, we operate a 24,000 sq ft battery design and assembly facility located in Crewkerne, and a 15,000 sq ft facility in Leominster dedicated to antenna production, electronics and software. This site also contains a design engineering workshop and state-of-the-art microwave laboratory. We also have design and sales facilities in Gloucester and Farnborough.

As a part of the Solid State PLC Group of companies, quoted on the UK AIM market, Steatite benefits from its association and close working relationship with the other companies in the group, and accompanying resources.

Steatite also designs and manufactures bespoke ruggedised computing and peripheral products under its ndura RUGGED® brand.



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“THE MARKET LEADER IN SUPPLYING  
COMPUTING, POWER AND COMMUNICATIONS”

“PART OF SOLID STATE PLC”

Steatite specialises in the design and integration of industrial computers, timing & positioning systems and rack cabinets for use in commercial, industrial and military applications.

**Engineering**

In house hardware, software and firmware development engineers bring a wealth of experience and know how to meet customer needs.

We specialise in:

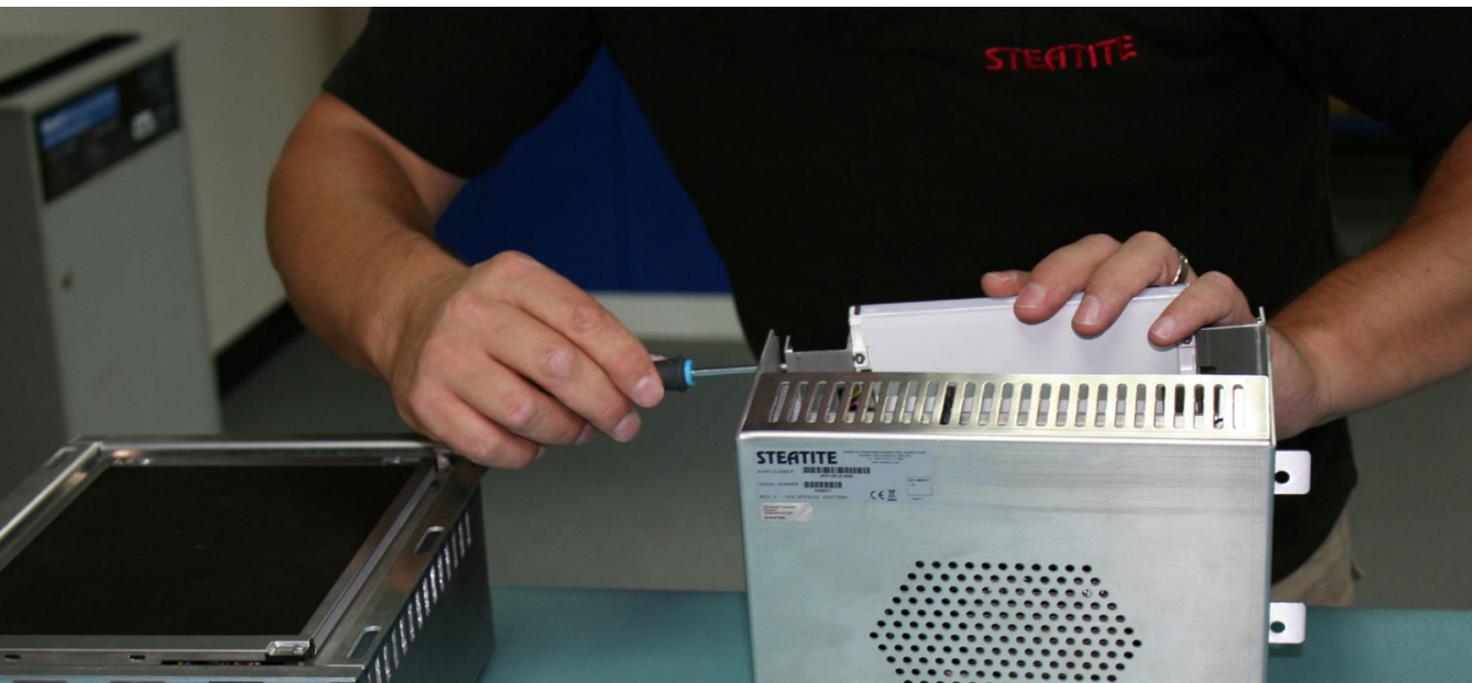
- Full industrial computer design and integration
- Custom chassis design, branding and manufacture
- Customisation of Windows Embedded IoT
- Product test and certification
- Cable assembly and PCB design
- 3rd party hardware and software integration
- Customised end-of-line test procedures
- Revision control, obsolescence management and build documentation
- Custom rack integration

**Production**

Our modern 26,000 sq ft purpose built production facility ensures that we have the capability and capacity to produce computer technology, from one-off systems to high volume roll-outs. Robust production processes and highly-skilled, dedicated staff are at the heart of everything we do, serving a wide range of markets including industrial, broadcast, military and transportation.

**Support**

We're here to make sure our products work exactly as required, and our experienced technical support team are on hand to provide quality aftersales support. In the unlikely event of an issue, whether hardware, software, O/S or BIOS, you can rely on us to help get everything working smoothly again.



“DESIGNED AND BUILT TO PERFECTLY MATCH YOUR SPECIFIC REQUIREMENTS”



**Computers & Displays**

Industrial Rack Mount PCs



Touchscreen Panel PCs



Fanless Industrial PCs



Certified Products



ATCA & VPX



Servers



**Time & Positioning**

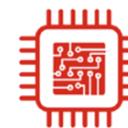
Time & Frequency



Positioning



GNSS Simulators



**Motherboards & Modules**

Motherboards & SBCs



Computer Modules



I/O & Graphics Cards



**Test & Measurement**

PXI



Signal Testers



SYNC & ASYNC Comms



“LONG-TERM TECHNICAL SUPPORT”



## Rugged portable computing

Since the earliest days of ruggedised computing, we have been designing, building and supplying the very best products for our customers. However, our service goes way beyond simply supplying the technology.

We provide full integration services through detailed planning, design and delivery of complex projects for use in some of the harshest and most challenging environments.

Our expertise and ability to evolve with the latest technological advances and the changing needs of our customers has kept us firmly at the forefront of the industry, offering the best and most extensive range of products with the highest levels of customer service and support.

### We provide:

- Rugged laptops, tablets & handheld devices
- Custom rugged computers, printers & peripheral products
- Fixed and de-mountable vehicle PCs, and vehicle installation
- Portable workstations
- Encryption and security solutions
- Mobile device management software
- Full solution capabilities - design, manufacture, test and supply
- Custom product configuration
- COTS product modification



## Radio and satellite communications

Steatite provides some of the most advanced radio, satellite and digital communication products available, enabling fast, secure & efficient communications in any location. As a primary distributor of ViaSat and Persistent Systems communications products, we are able to provide custom solutions that bring together the very best technology available, to precisely meet specific requirements.

Our extensive product range includes Wave Relay, a revolutionary mobile ad-hoc networking system (MANET), UHF SATCOM terminals and amplifiers, accessories such as diplexers and computer terminals, and many other innovative satellite and digital communication products.

We are the UK's only authorised supplier of Wave Relay products, including the astounding MPU5 - the world's first smart radio, with capabilities that far surpass the standards of mesh networking devices.



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“ TOUGH COMPUTING TECHNOLOGY ENGINEERED  
TO PROVIDE FLAWLESS OPERATION  
IN THE HARSHTEST ENVIRONMENTS ”

“ DEPENDABLE COMMUNICATIONS SOLUTIONS  
THAT SURPASS EXPECTATIONS ”



## Custom built lithium battery packs, portable power and energy storage

Steatite is a leader in the supply of lithium battery technology, with over 30 years' experience in the supply of portable power solutions and batteries, into some of the world's most demanding environments. Our battery packs are used in a range of sectors including Oil and Gas, Military and Security, Aerospace, Environmental and Oceanographic, Medical and Industrial OEM. We operate a modern 24,000 sq ft engineering and production facility dedicated solely to the design and assembly of battery packs. Our capabilities include:

- Battery pack assembly and custom build
- Full battery design including control electronics
- Working to the highest quality and safety standards
- ATEX approved battery packs
- Defence standards
- Full technical support and battery testing

We offer a full design, assembly and custom build service for primary and rechargeable battery packs, electronic control, battery power gauges and chargers, often specialising in applications where the performance of the equipment is mission-critical.

From initial design, through qualification, UN testing, full production, battery value added distribution, technical support and disposal at end of life, Steatite can assist in all aspects of the battery project, and satisfy both commercial and technical requirements.

Our skills include battery management systems, charging and control electronics. We supply battery systems for data communications, portable power, unmanned vehicle systems (land, sea and air), measurement and control, asset tracking and man portable electronic systems.

## Working with the best

**We work with world-class cell manufacturers and continue to expand our capability. Our partnerships with cell manufacturers include:**

**Panasonic** – Lithium-ion rechargeable

- Renowned and industry leading supplier
- High end performance

**Electrochem** – High temperature lithium primary

- Operating temperature up to 200°C
- World's most durable lithium cell (NASA, Military, Oil & Gas)

**Boston Power** – Lithium-ion rechargeable

- >2000 cycles at 90%DoD
- Wide operating temperature range -40°C to +70°C

**A123 Systems** – Lithium-ion nanophosphate rechargeable

- High power and energy density, with extended life cycling
- Excellent safety performance

**Tadiran** – Lithium thionyl chloride

- Long life, high energy cells
- High temperature range tolerance

**Oxis Energy** – Lithium sulfur rechargeable

- Next generation battery technology
- - 400 Wh/kg has already been achieved
- Lightweight, safer and more environmentally friendly

**Kokam** – Lithium polymer pouch rechargeable

- World leading supplier of lithium-ion cells
- High energy density



“DELIVERING THE POWER YOU NEED, WHEN YOU NEED IT”

“DRIVING INNOVATION IN NEW BATTERY DESIGN”



## Wideband microwave antennas, subsystems and technical consultancy

We have been at the forefront of antenna design and manufacture for over 40 years and continue to excel in the research, design and manufacture of ultra-wideband microwave antennas, subsystems and associated microwave components. With systems in operation across the world and space, our reach is truly global.

Offering the very best to both the electronic warfare and signal intelligence markets, we specialise in the provision of technical consultancy services ranging from the analysis of complex antenna subsystems and technical concept studies, through development studies and prototyping, to finished hardware.

Our focus is on providing solutions, and creating products and systems that push the boundaries of what is technically possible, whether in a defence, civil or commercial application. This ensures that our customers benefit from the latest, custom built equipment, designed to operate at the cutting edge of technical capability.

Our purpose built 15,000 sq ft facility includes extensive design, engineering and manufacturing capabilities, as well as a state of the art microwave laboratory & wide ranging test facilities. We invest heavily in the latest technology to ensure we deliver every time.

## Products and applications

### We provide the following products:

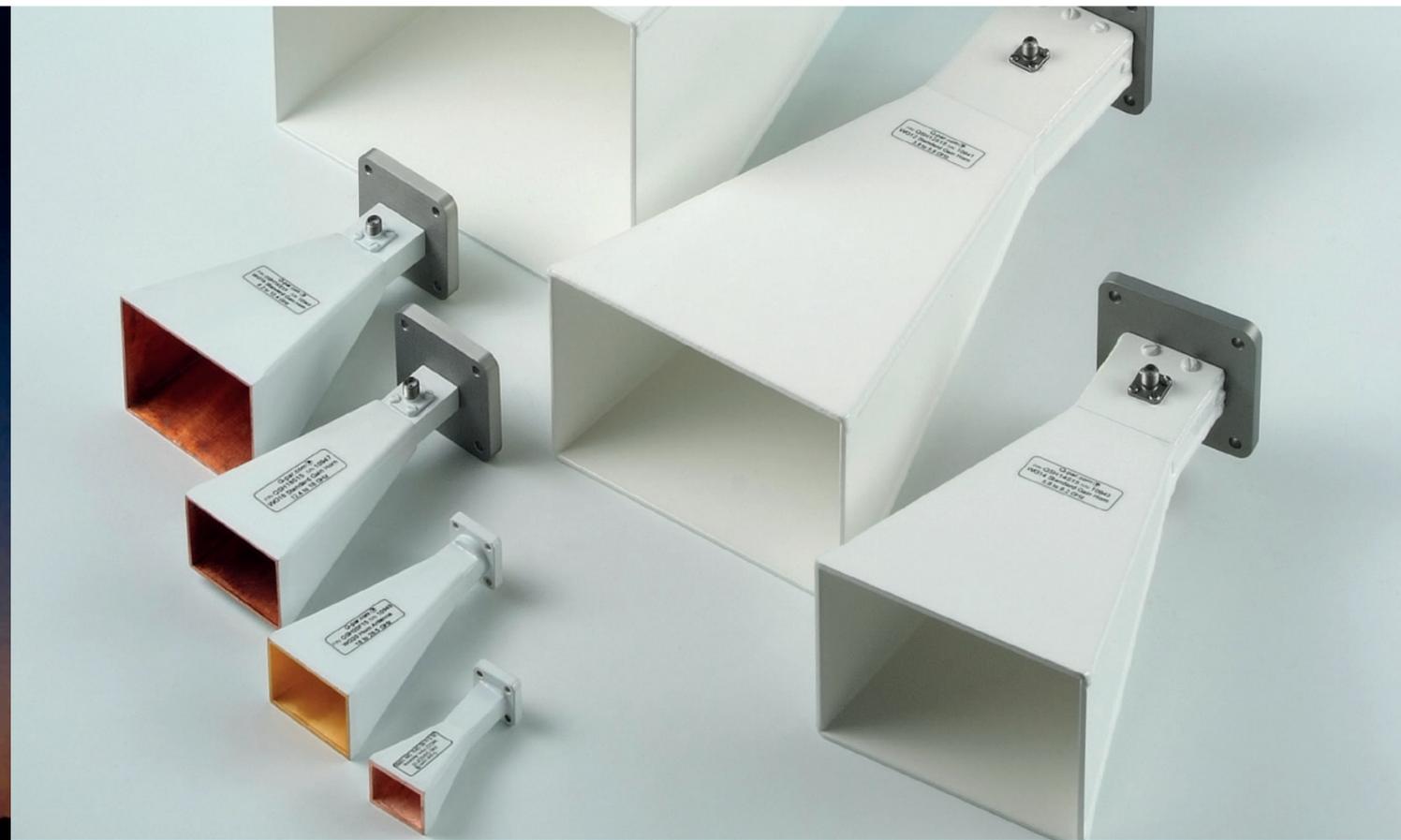
- Subsystems & bespoke antenna components
- Horn antennas
- Omni-directional antennas
- Sinuous antennas
- Spiral antennas
- Reflector antennas
- Spinning DF antennas

### Our antennas form an essential part of many high precision systems, covering a range of applications, including:

- Surveillance and spectrum management
- Radar warning receivers
- Simulators/threat emitters
- Test and measurement
- Meteorological sensors



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“EXQUISITE PRODUCTS THAT PUSH THE BOUNDARIES TO THE VERY LIMITS OF TECHNICAL CAPABILITY”

“BRITISH RESEARCH, DESIGN AND ENGINEERING AT ITS VERY FINEST”

**Flexible, high integrity tagging solution for security critical tracking**

Steatite is a specialist provider of advanced, robust and secure-tracking and monitoring products.

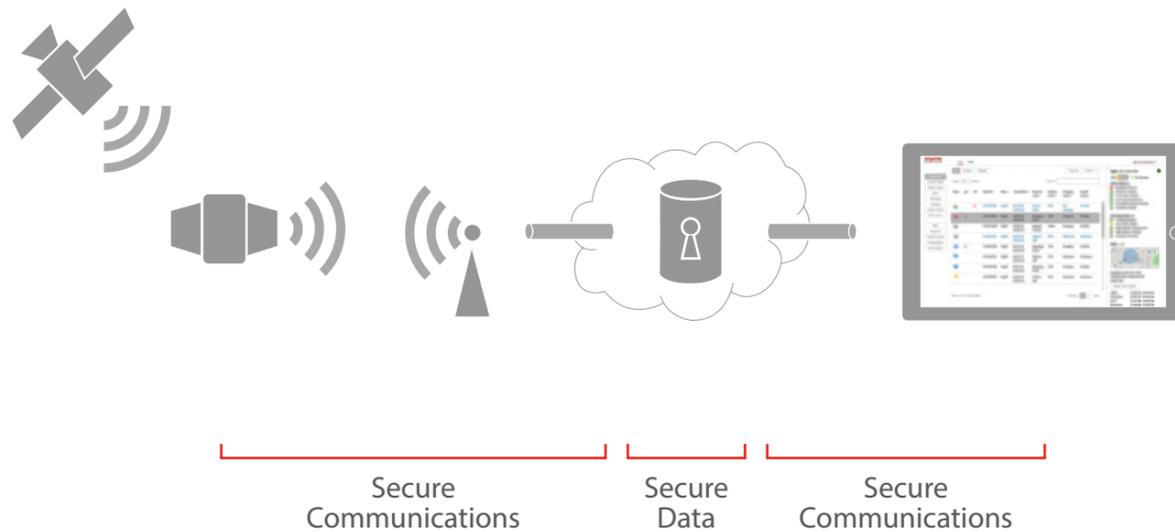
Our ground-breaking, highly intuitive web-based monitoring service incorporates a remarkably secure and waterproof GPS ankle tag, containing sophisticated anti-tamper systems to provide effective monitoring with complete confidence.

From individual devices and accessories, to our market leading end-to-end solution for security-critical applications, we offer some of the most technically advanced products available today.

Steatite's track record of delivering secure, mission and time-critical solutions to military, aerospace, and many other sectors, uniquely positions us to provide technology to the secure-monitoring sector, where security, integrity and confidentiality are paramount.

Developed from the ground up and built around these core areas, our monitoring solution overcomes many issues common to the electronic monitoring market.

Data integrity and sophisticated forensic evidence retention ensures the solution can withstand intense legal scrutiny where required.



**Product and service features**

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**Geofence alerts**  
Configurable location alerts, triggered by associated tags crossing operator-defined map boundaries.
- 

**Secure tag**  
Robust, tamper resistant tag and strap designed to retain physical evidence.
- 

**Tamper alerts**  
Configurable tamper alerts, triggered in the unlikely event of a case breach or strap cut.
- 

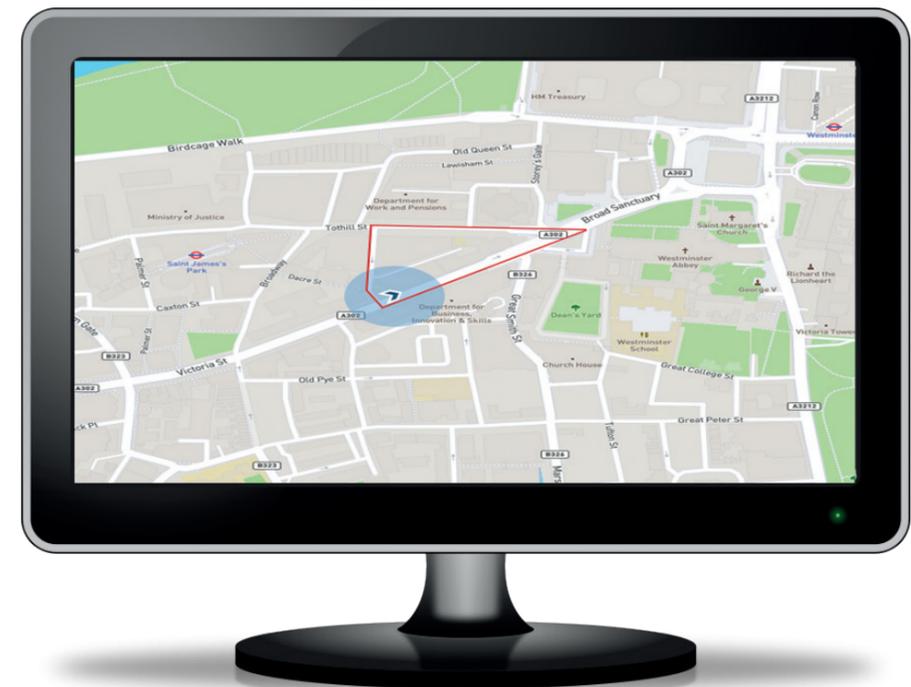
**Secure communications**  
Encrypted data transfers between the web storage and tag.
- 

**Long battery life**  
More than 3 days operation between charging.
- 

**Short battery charge**  
Only one hour charge time.
- 

**Untethered charging**  
Charging without having to connect to the mains.
- 

**Waterproof**  
May be worn in the shower, bath or whilst swimming.



## GET IN TOUCH

Our technical sales team are available on **+44 (0)1527 512 400**

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Visit our website: [www.steatite.co.uk](http://www.steatite.co.uk)

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