

# SOLID STATE PLC

DESIGN - MANUFACTURE - SUPPLY

## COMPANY OVERVIEW BROCHURE



TRUSTED TECHNOLOGY FOR  
DEMANDING ENVIRONMENTS



DESIGN



MANUFACTURE



SUPPLY

## COMPANY OVERVIEW

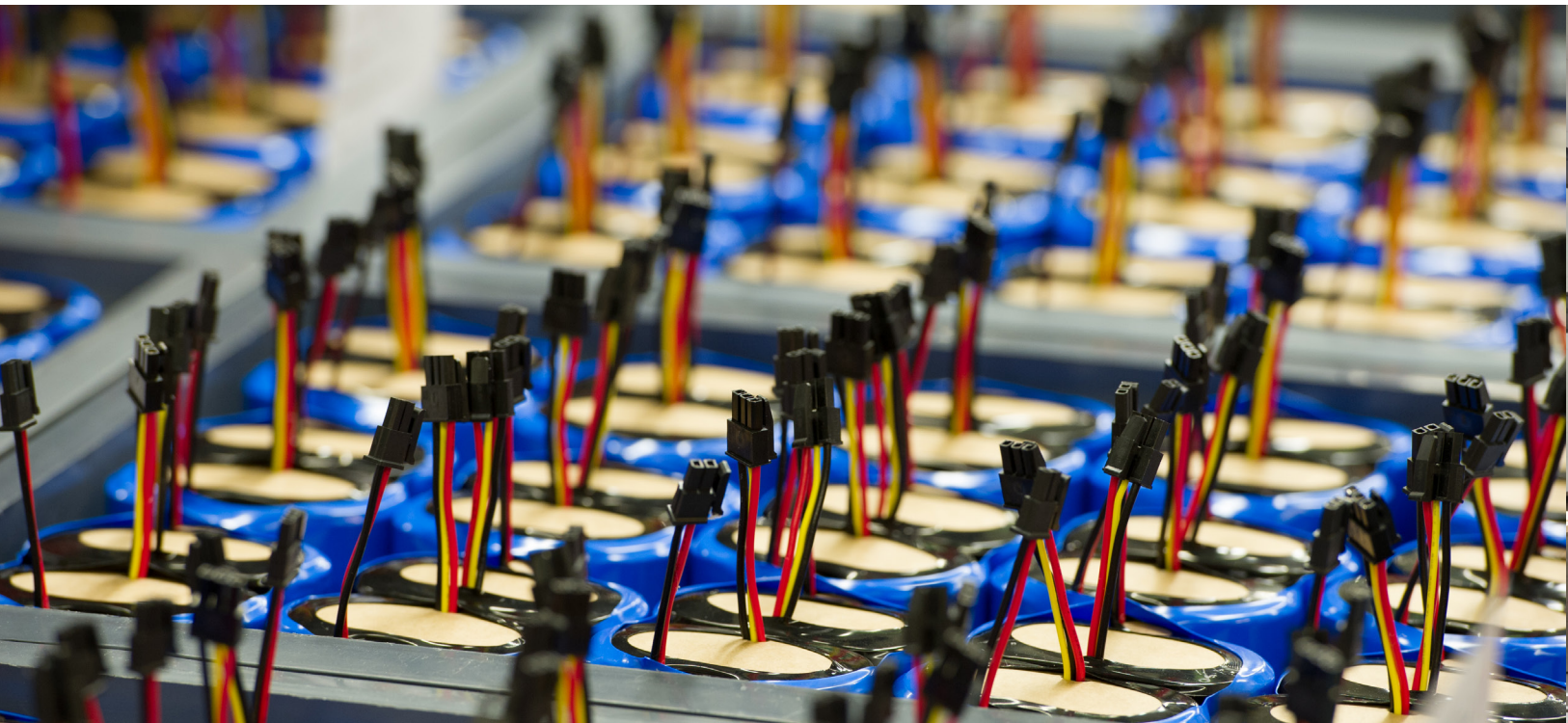
Solid State Plc (AIM: SOLI) is a value added electronics group supplying commercial, industrial and military markets with durable components, assemblies and manufactured units for use in specialist and harsh environments. The company has particular expertise in industrial and ruggedised computing, battery power solutions, antennas, secure radio systems, imaging technologies, electronic components and displays.

Serving industries with demands for complex, performance-critical products, the Solid State trading brands have become recognised industry leaders through consistently delivering product quality, high service standards and comprehensive technical support.

Solid State PLC has five principal trading companies in the UK; Solid State Supplies Ltd, Steatite Ltd, Pacer Components, Active Silicon Ltd and Willow Technologies Ltd including its US based subsidiary American Electronic Components Inc.

Through an in depth knowledge of its core markets and available technology, Solid State is an established supplier to clients with exacting standards in a range of sectors including defence, energy, aerospace, environmental, life sciences, oceanographic, industrial, medical, and transportation.

With a focus on the development and supply of performance technologies for extreme environments, the Solid State name, and that of its trading companies, has become synonymous with high quality and reliability.



"WE DO THE DIFFICULT THINGS SMALL COMPANIES CAN'T DO AND THE  
LARGE MANUFACTURERS DON'T WANT TO DO"



Solid State was established in 1971. In June 1996 the company was admitted to AIM (Alternative Investment Market), London Stock Exchange's market for small and medium size growth companies.

Headquartered in Redditch, UK, Solid State has over 300 employees at multiple sites across the UK, Europe and US.

The company has grown organically and by acquisition over the years, having made 12 acquisitions since 2002, strengthening its product catalogue, engineering capability, customer base and workforce with each addition to the group.

Solid State has a number of registered brands and trade marks including Durakool®, Hermaseal® and Ndura™.

Over the years the companies within the Solid State group have developed an enviable reputation for world-class engineering prowess and top quality, highly reliable products.

As a result, the company is often the first choice provider of technology for critical applications where failure is simply not an option; applications where extremes of environment, such as temperature, vibration, dust and moisture would rapidly cause the failure of more conventional products and components.

Extensive research and development maintains Solid State's position at the forefront of technological advancement whilst investment ensures the business has access to the latest engineering, manufacturing and testing facilities and know-how.



"TARGETTING STRUCTURAL GROWTH MARKETS THROUGH A  
PROVEN ACQUISITION STRATEGY"



STEATITE

Steatite is the manufacturing division of the Solid State group. Established in 1938, the company is a market leader in the design, development and supply of rugged and industrial computers, imaging and embedded vision systems, custom battery solutions, secure communication systems, antennas & subsystems.

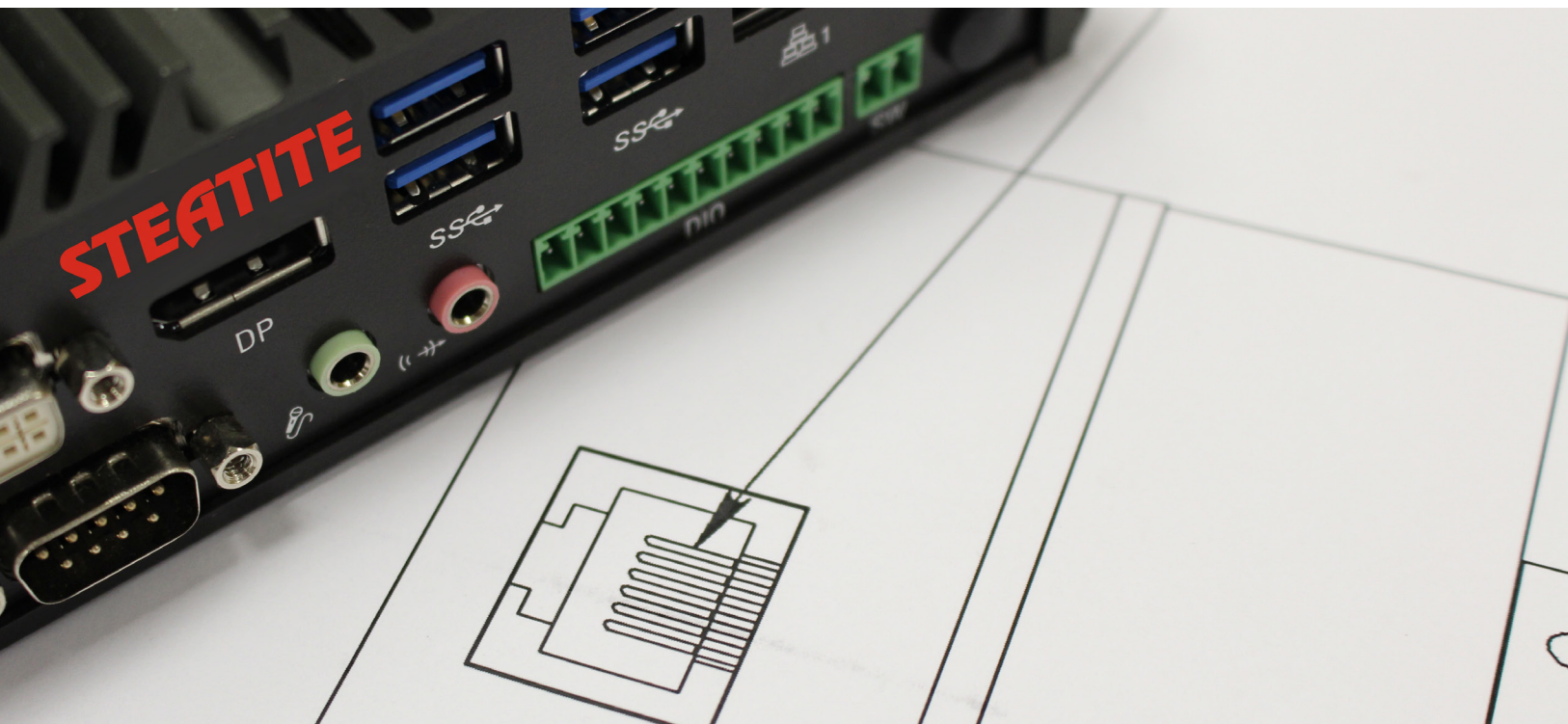
Over the years Steatite has developed a first class reputation for providing solutions that precisely meet the operational demands of its customers.

Custom engineering is at the heart of the 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 with ISO 9001: 2015 certification amongst others. Security-cleared individuals and facilities are complemented by a strong engineering and design capability, with an in depth knowledge of CE, UKCA, UK DEF STAN, American MIL-STD, NATO STANAG and UK, European and American TEMPEST standards.

As an innovative, technology driven company, Steatite plays 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.

From the ocean floor to the edge of space, Steatite technology is enabling critical applications to operate consistently, reliably, and above all safely, around the clock. Whether gathering scientific insight in the cold and crushing depths at the ocean floor, transmitting high bandwidth data across hostile terrain, processing colossal amounts of traffic data, or simply enabling secure ticket sales on board a train.



"A MARKET LEADER IN THE PROVISION OF COMPUTING,  
POWER AND COMMUNICATIONS TECHNOLOGY"



Headquartered in Redditch, Worcestershire, Steatite operates a secure, modern facility dedicated to design, engineering, manufacturing and service support.

In addition to our main Redditch site, Steatite has a large, battery design and assembly facility located in Crewkerne, Somerset, and a world-class facility in Leominster, Herefordshire, dedicated to antenna design, production and testing.

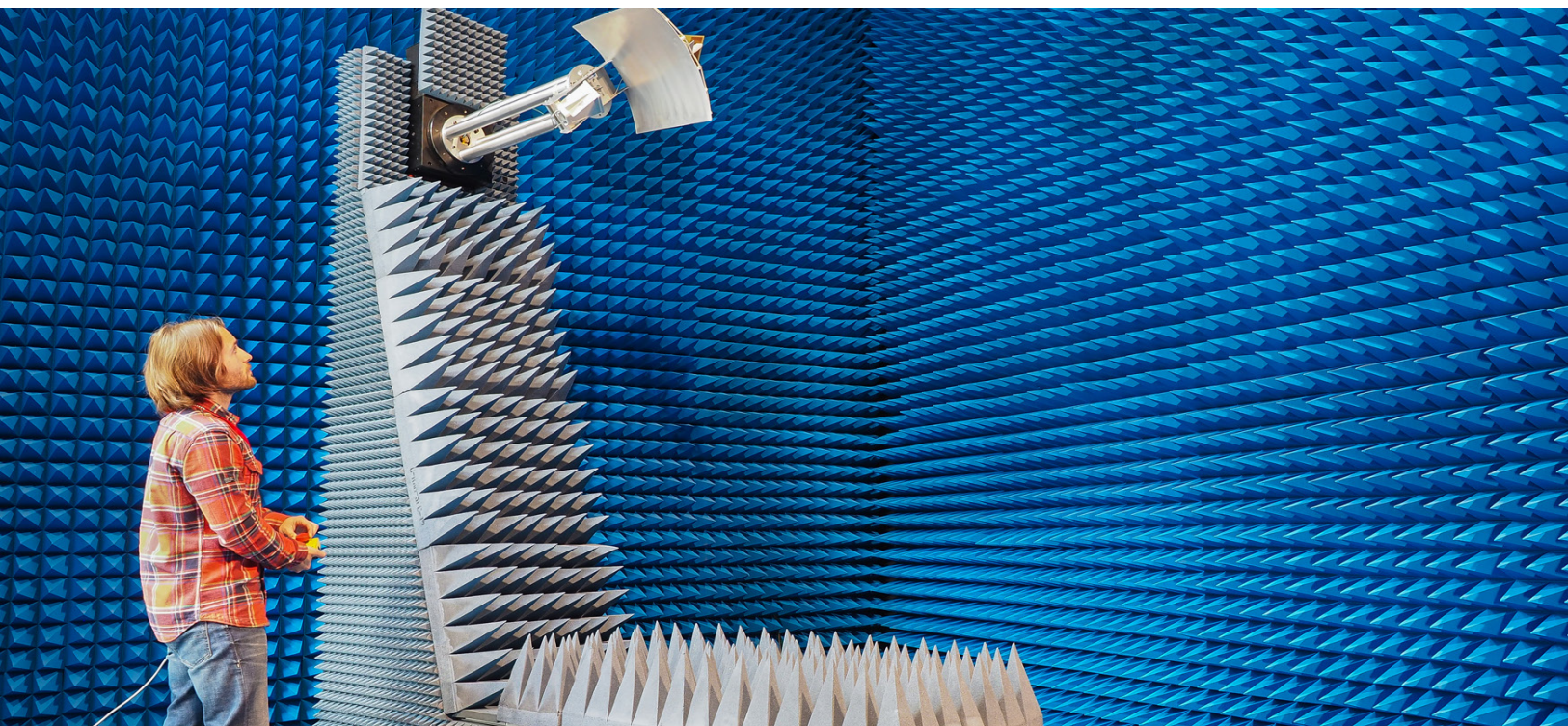
Iver, Buckinghamshire, is home to the company's imaging technologies business unit, Active Silicon. Here the focus is on embedded vision systems for image processing, data acquisition and transmission.

Active Silicon's operations facility is located in nearby Langley, and a sales office for the North America market can be found in Severna Park, Maryland, around 30 miles North East of Washington DC.

Steatite has extensive in-house testing capabilities including a large anechoic RF test chamber and a smaller semi-anechoic EMC chamber, in addition to environmental test equipment.

The Redditch based compact EMC chamber provides agility and efficiency for the engineering function by speeding up product development as a result of being able to quickly test different engineering configurations without the reliance on an external test facility.

The Leominster facility houses the company's state-of-the-art spherical near-field RF test chamber (pictured below). This 7m x 5m chamber is able to accommodate antennas from hand-held horns to 3m diameter dishes and enables full far-field measurements to be derived without the difficulties of a large scale external test range facility.



"BRITISH RESEARCH, DESIGN AND ENGINEERING  
AT ITS VERY FINEST"



To ensure a smooth transition from design to production, Solid State Supplies offers a number of value-added services including Device Programming, Firmware Version Control, Tape and Reeling, Mini Reeling and Bake & Seal.

Utilising the latest anti-counterfeit detection methods, and with over 20 years of industry knowledge, Solid State Supplies SOS is the assured source for all obsolescence requirements.





### End-to-end IoT solutions

Solid State Supplies helps customers with IoT projects by offering both hardware and software solutions.

Having established partnerships with leading IoT experts, the company is able to offer end-to-end solutions from hardware to plug-and-play applications for device management and data insights through its '5 Stages of IoT' framework:

1. The 'Thing'
2. Connect
3. Collect
4. Learn
5. Do

A dedicated team of industry experts guide customers through the IoT landscape - step by step, from concept, design and development through to execution of their IoT ecosystem, helping them to move from a "Product" to an intelligent "Connected Product" and realising the value of data to their business.

### Custom display solutions

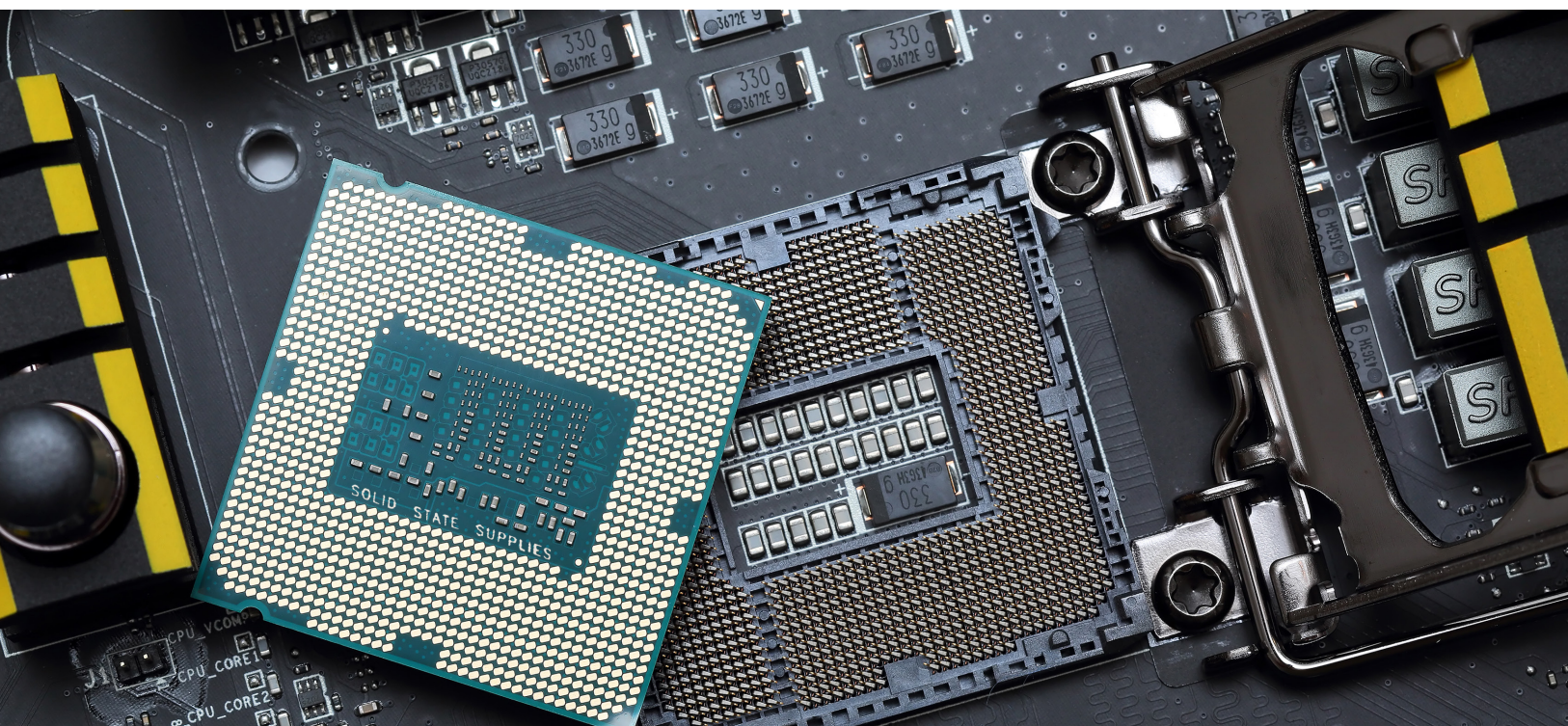
Solid State Supplies provides high quality display components monitors, panels, signage and power components to the commercial, retail, industrial and military markets throughout the UK and Europe.

Offering bespoke display solutions to a variety of markets, many of our display panels, monitors and components can be found in high-reliability applications such as fighter jets, bomb disposal vehicle systems, helicopters, industrial control systems and broadcast units.

### Willow Technologies & AEC

The Solid State Supplies offering is further enhanced by the addition of Willow Technologies Ltd and its US subsidiary American Electronic Components Inc, specialising in switching, sensing, resistive and hermetic seal solutions for customers around the world.

Combining a heritage of designing and building high current switching devices, the companies provide enhanced capability to Solid State Supplies as well as additional access to growth markets and own brand components Harmaseal and Durakool.



"SERVING THE NEEDS OF THE  
ELECTRONICS OEM COMMUNITY"





## PACER COMPONENTS

**Pacer is a thriving and expanding provider of optoelectronic products, displays and custom-designed photonic, sensor and display solutions.**

The key to Pacer's success is the experience and expertise of its team - technical specialists who work closely with customers, advising on the latest products and technologies, and using their knowledge to add significant value to the design process.

Pacer is uniquely placed in this way to help OEMs find solutions to design requirements involving optoelectronic, photonic, laser and sensing technologies.

Established for over 30 years, Pacer is among the largest UK distributors in the photonics industry, representing globally recognised brands and offering cutting-edge innovations in illumination, detection, sensor and display technologies.

Pacer supplies customers from a diverse range of industries including medical, healthcare, automation, security, agriculture, life science, aerospace and defence.

The company's optoelectronic components portfolio encompasses the emission, detection, sensing and switching of light, including solutions for photon detection, laser or time-of-flight range finding, focus variable optics, infrared sensing and specialist illumination.

Pacer's displays portfolio includes industrial and commercial grade displays utilising all the latest display technologies, as well as embedded control solutions such as panel PCs and single board computers.

Pacer has facilities in Ireland and the USA which mirror the company's overall model of success through close customer support and applications knowledge that is second to none.



**"OPTOELECTRONICS AND DISPLAY SPECIALIST"**



## Worldwide Custom Solutions

For the past decade, Pacer has further exploited the outstanding global supply chain of its distribution arm and unparalleled knowledge of the photonics market to support its UK **Custom Solutions Centre** - a state-of-the-art design and manufacturing facility, serving customers worldwide with bespoke subassemblies and systems in detection and sensing, monitoring and illumination, and touchscreen displays.

Finding expert resources for niche optoelectronic design and assembly is challenging, as there are very few companies in the UK with the right skills and experience to tackle such demanding requirements.

Pacer is well positioned to offer OEMs a cost-effective outsourcing option for projects involving photonics, optics, sensing or displays.

We offer value engineering, ruggedisation and performance improvement of existing designs, or complete concept-to-production solutions, depending on customers' needs.

The facility includes a recently expanded ISO14644-1 class 7 cleanroom, enabling the manufacture of complex optoelectronic assemblies involving extremely precise alignment of optical components and lenses to very tight tolerances.

Pacer is a trusted partner to customers ranging from small sub-contract manufacturers to globally recognised brands.

Much of the company's growth is through existing customers actively seeking further opportunities to work with Pacer, due to the value that it adds in supply chain management, quality control and just-in-time shipping of critical components.



"LIGHT IS THE THEME THAT LINKS ALL OF OUR CUSTOMERS"

## FIND OUT MORE

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### STEATITE

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

### SOLID STATE SUPPLIES

[www.sssltd.com](http://www.sssltd.com)

### PACER COMPONENTS

[www.pacer.co.uk](http://www.pacer.co.uk)

### ACTIVE SILICON

[www.activesilicon.com](http://www.activesilicon.com)

### WILLOW TECHNOLOGIES

[www.willow.co.uk](http://www.willow.co.uk)

### AMERICAN ELECTRONIC COMPONENTS

[www.aecensors.com](http://www.aecensors.com)



"FACILITIES ACROSS TWO CONTINENTS"





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