



# GarnerOsborne<sup>©</sup>

Leading UK specialist in PCB Manufacturing, PCB Assembly,  
Box Build & Functional Test

All under the same roof, minimising multi-site logistical problems

Conformal  
Coating

PCB  
Assembly

PCB  
Manufacturing

Box  
Build

Functional  
Testing



# Company Overview

Garner Osborne Circuits is a well-established and fully inclusive CEM based in Newbury, Berkshire. Offering PCB manufacture, PCB assembly, Box Builds and Functional Testing, under one roof.

As a highly focused and customer-satisfaction driven company, we understand that each client and every job is unique. Our main priorities are delivering top quality products, on time, at competitive prices, with excellent customer service.

Our team of 130 people have the knowledge and flexibility to meet all our customers' expectations in the demanding world of PCB manufacture and assembly.

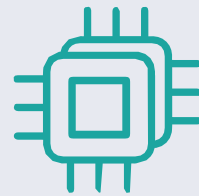
Our range of services include PCB Manufacture, PCB Automated Optical Inspection (AOI), PCB Flying Probe Testing, SMT pick & place assembly, Through-hole assembly, Semi-Automated through-hole assembly, Selective soldering, X-ray, 3D Solder Paste Inspection, PCBA 3D AOI, Ionic Testing, Environmental Stress Screening Test Chamber, Conformal Coating, Complete Box Builds, Functional test, Supply Chain Management & NPI Prototyping.



UK-based offering  
express 24-hour  
turnaround service



A highly skilled team using  
advanced manufacturing  
technology



No MOQ's - manufacturing  
1 off prototypes through to  
mass production



Our people work hard to  
understand your needs  
and what you want to  
achieve



Continuous investment  
in the latest machinery



Quality is paramount. Every  
board is put through a series of  
stringent control tests and  
inspections

# OUR VALUES

Our values are the backbone of everything we do at Garner Osborne. They reflect who we are today and who we aspire to be tomorrow. High Standards, Integrity & Respect, Positive Energy, and a Solutions Driven approach aren't just principles, they're the behaviours that allow us to deliver world-class PCB solutions with consistency and confidence.

In an industry where precision matters and trust is earned, these values guide how we work with our customers and with each other. They make us accountable for being innovative, to communicate openly and to take pride in the finer details. They remind us that reliability is built through actions, not claims, and that the best results come from teams who are empowered to solve problems together.

As we continue to invest in our capabilities and expand our group offering, these values will remain our compass. They ensure that no matter how technology evolves, our commitment to doing the right thing stays constant. That's the standard we hold ourselves to, and the promise we make to every customer we support.

**Dean Curran, Group CEO**

## SOLUTIONS DRIVEN

We succeed by solving problems and finding better ways of doing things. This isn't always big inventions; it can be a small improvements that make a big difference. Being solutions oriented means, we don't just point out problems, we actively look for answers.

## HIGH STANDARDS

Being reliable means people can count on us, whether it's meeting your deadline, keeping a promise, or delivering quality work. High standards mean we don't settle for 'just enough' we aim for excellence in everything we do.

## INTEGRITY & RESPECT

We champion doing the right thing, even when no one is watching. Trust is earned through honesty, fairness, and consistency. Together, these values build strong relationships inside our business, and with customers who depend on us.

## POSITIVE ENERGY

We show up with positivity, drive, and focus, making a difference to our customeres and those around us. We focus on creating an environment where everyone feels motivated and supported within the workplace, allowing us to better serve our customers.

# PCB Manufacturing

Using advanced manufacturing equipment, our expert UK team creates a wide variety of PCBs for all types of applications, all in one UK location.

## Why Garner Osborne Circuits?

- PCB manufacturing in one UK location – minimising multi-site logistical problems;
- DFM (design for manufacture) advisory service – we have a highly skilled team running DFM checks on every design, ensuring any anomalies are resolved before manufacturing starts;
- Continuous investment in the latest technology and machinery, maximising efficiency and the highest level of accuracy;
- Every PCB we manufacture is 100% flying probe tested and is put through a series of stringent quality control inspections;
- Express Prototype Service offering a 24-hour turnaround service;
- Our core business is manufacturing PCBs in the UK. However, we have long-standing relationships with our offshore partners to accommodate high-volume orders at competitive costs. Our partners work to the same quality levels that you would expect of Garner Osborne and every board is 100% inspected before leaving our factory.



# Capabilities - at a glance

Layer Count	1-18 layers
Materials	FR4 (standard & Hi-TG), FR2, PTFE, Ceramic, Polyamide, etc.
Maximum Circuit Dimension	820mm x 410mm
Test and Inspection Capabilities	Impedance control, AOI, Ionic contamination & flying probe
Board Thickness	0.1mm to 4.8mm
Copper Thickness	0.5oz to 4oz + copper core
Surface Finishes	ENEPIG, ENIG, immersion silver, immersion tin, Lead-free HASL, hard gold, etc.
Minimum Trace width/distance	0.10mm
Finished hole diameter	Minimum 0.2mm
Others	Blind & buried vias, metal core boards, resin-filled vias, controlled impedance
Type of Boards	Single & double-sided rigid, single & double-sided Flexi, Multilayer, Multilayer flex-rigid, etc.
Solder mask	Green, Black (matt or gloss), White, Blue, Clear, Yellow, Red
Approvals	UL, ISO 9001, AS 9100, ISO 13485, JOSCAR Registered



Reducing your rework costs with precision prototypes, refined to be ultra-accurate.



Existing client base includes global brands.



Quality assurance IPC certified quality inspectors.



Investing in the latest machinery to give you the best quality PCBs.



## PCB Assembly

Using state-of-the-art equipment to give you exceptional accuracy at speed. Whatever your needs, we are equipped to provide you with the best solutions.

We are a UK-based PCB assembly specialist with the ability to place virtually every component on the market, from 0201 passives to 35mm square BGAs. This is all backed up by 3D AOI (automatic optical inspection) and full X-ray capabilities.

We handle and manage any combination of material supply – full procurement, partial free-issue kits or full free-issue kits, and operate an ‘open book’ policy for a costed BoM, to ensure we achieve the best material prices.

We have a dedicated stand-alone system for ‘Express Prototype’ 24-48 hour delivery. This is achievable from receipt of components and relevant tooling.

Through the use of our MRP system, we have full control of our supply chain, ensuring on-time component delivery and at the best market price.

All orders receive a complete ‘contract review’, to ensure the ultimate delivery date is achievable and any issues are identified prior to assembly.

130  
employees

98.4%  
on time  
delivery

Made in  
Britain

# Why us?

Ability to produce from full procurement, partial free-issue kits or full free-issue kits.

Independent express prototype service allowing for 24-48 hour turnaround.

Every bottom termination device is 100% x-rayed to ensure the quality of the solder joints and internal structures.

Finished goods storage to allow Kanban call-off orders.

4 SMT lines available placing 130,000 components per hour

Engineering support available from quote through to delivery

No minimum order quantities, supporting customers from prototyping stage through to mass production

Capable of placing every component on the market

3D Solder Paste Inspection (SPI) and 3D Automated Optical Inspection (AOI) backed by Ksmart software

IPC-A-610 qualified operators ensuring high quality assemblies

Open book policy as we believe in transparent communication throughout, strengthening our partnerships



48 hour  
turnaround

> 130,000  
components  
per hour

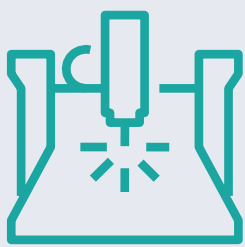
IPC-A-610  
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operators

# Box Builds

A box build involves integrating the PCBA into cases, enclosures or chassis in which the product will be packaged.

The comprehensive integration of PCB assemblies can involve anything from the installation of sub-assemblies through to more complex box builds including mechanical assembly, cable assembly, serialisation, point-to-point wiring, software and firmware, chip programming, and functional testing. Some customers also request that we provide packaging and labelling as well as warehousing and distribution solutions, including delivery directly to end customers, saving time and money.

Working with customers from PCB manufacture, all the way through to the box build itself ensures that our expert team has a thorough understanding of your specifications.



We manage the entire box build process, including sub-assembly, system integration and final assembly.



Rigorous testing and quality control measures are in place to ensure that every assembly meets our high standards.



Our team is skilled in the precise assembly of complex mechanical components and cable assemblies.

### Comprehensive Service Offering:

We manage the entire box build process, including sub-assembly, system integration, and final assembly.

### Precision Assembly:

Our team is skilled in the precise assembly of complex mechanical components, ensuring optimal product performance.

### Customisation:

We offer tailored assembly solutions to meet the unique needs and specifications of each client.

### Quality Assurance:

Rigorous testing and quality control measures are in place to ensure that every assembly meets our high standards.

### Supply Chain Integration:

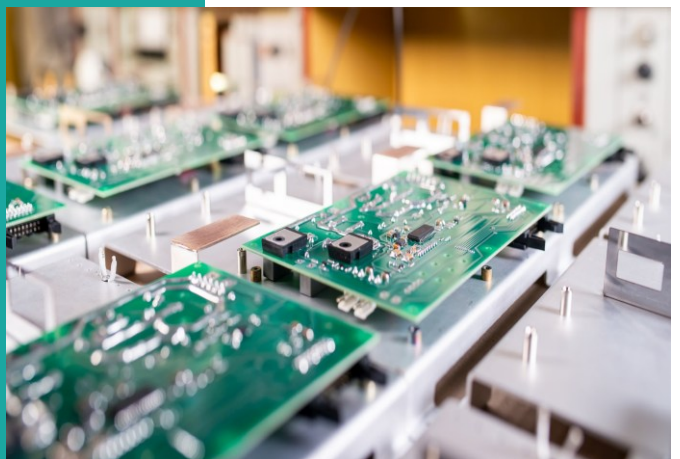
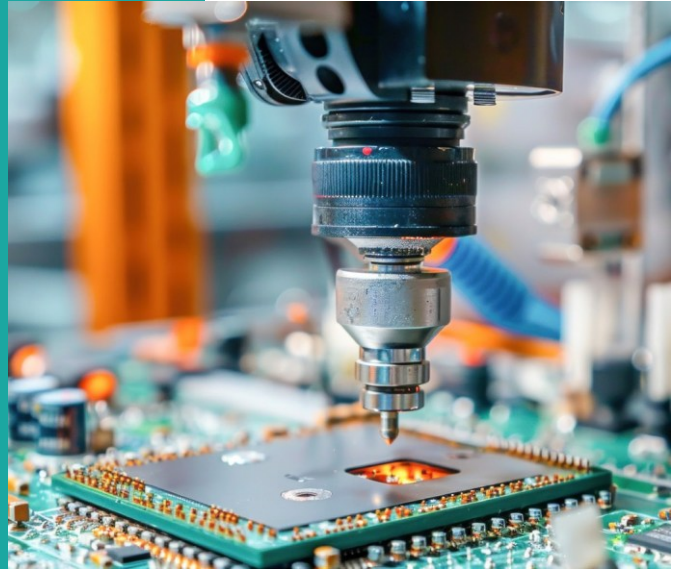
Seamless integration with our supply chain ensures the timely and cost-effective sourcing of all necessary components.

### Efficient Production Processes:

Our assembly lines are designed for efficiency, reducing lead times and ensuring timely delivery.

### Sustainability:

We incorporate eco-friendly practices and materials into our assembly processes where possible.



# Supply Chain Management

Every stage is measured for quality and efficiency to manufacture perfection.

We partner with a diverse range of reputable suppliers worldwide, ensuring consistent access to high-quality materials. We employ sophisticated inventory management systems to ensure optimal stock levels and prevent shortages.

We have long-standing relationships with essential key industry contacts allowing us to procure items on your behalf such as metal work, moulded plastic enclosures and made-to-measure packaging allowing us to be a one-stop-shop for your completed product. Every component we purchase can be tracked back to its original manufacture date and supplier allowing us to have complete confidence in our supply chain.

If you're struggling to find an obsolete item our devoted Purchasing department will use their industry contacts to track down any hard-to-find components or if this is still not possible they will help you to find an alternative solution.



Supply chain management

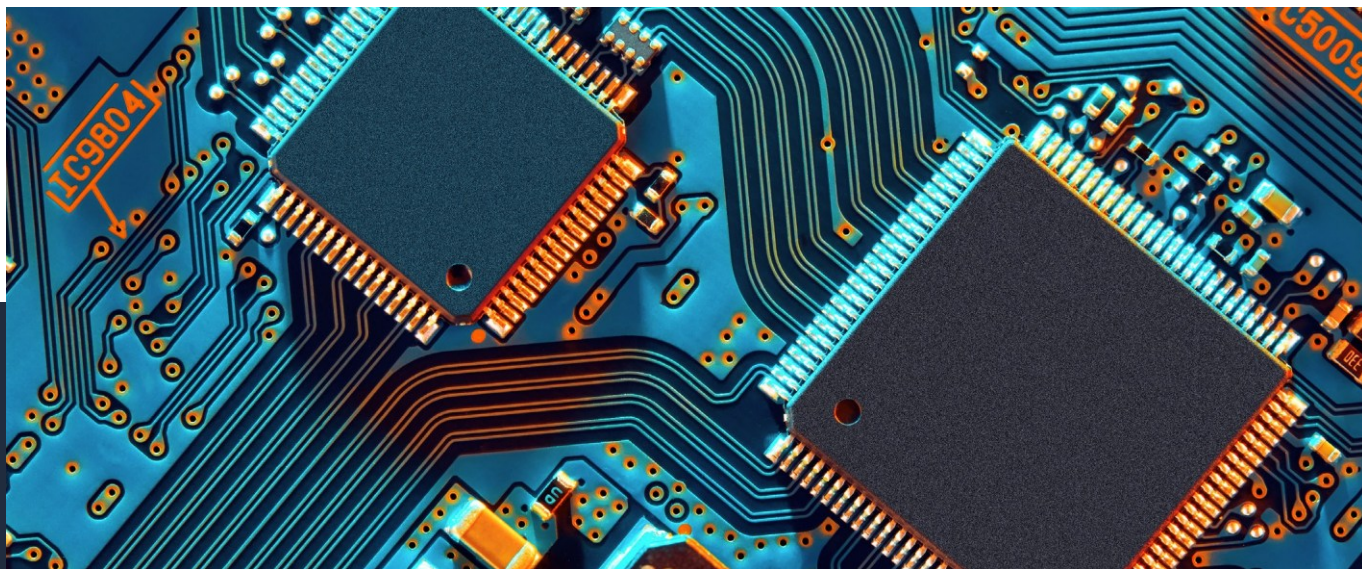


Consignment Stock



Customer Order Fulfilment





### Global Supplier Network:

We partner with a diverse range of reputable suppliers worldwide, ensuring consistent access to high-quality materials.

### Advanced Logistics:

Our logistics processes are meticulously planned and executed to ensure timely delivery and reduced lead times.

### Risk Management:

We proactively identify and mitigate potential risks within the supply chain to maintain continuity and reliability.

### Cost Efficiency:

Through strategic sourcing and long-term relationships with suppliers, we negotiate competitive prices without compromising on quality.

### Inventory Management:

We employ sophisticated inventory management systems to ensure optimal stock levels and prevent shortages.

### Sustainable Practices:

Our commitment to sustainability is reflected in our supply chain, where we prioritise eco-friendly materials and processes.

### Supplier Audits:

Regular audits of our suppliers ensure that they meet our stringent quality and ethical standards.

### Technology Integration:

We utilise cutting-edge technologies, such as AI and automation, to enhance efficiency and transparency across the supply chain.

### Customer-Centric Approach:

Our supply chain is designed with the customer in mind, ensuring that we can meet specific requirements and adapt to changing needs.

### Continuous Improvement:

We are committed to the continuous improvement of our supply chain, regularly reviewing and refining our processes to stay ahead of industry trends.

# Quality Assured

## A reputation built on 30 years of high quality and reliable manufacturing.

We pride ourselves on the accreditations obtained to date and are committed to the continuous improvement of the services we provide. To assist us in achieving the best possible results, we use advanced technology i.e.: Emma 5 Flying Probe testing, 3D Solder Paste Inspection, 3D AOI, Ersascope and X-Ray systems which are operated by our qualified IPC operators.

We currently possess certifications for AS 9100, ISO 9001, ISO 1348, JOSCAR, and Cyber Essentials Plus which demonstrates our commitment to quality management.

Quality is paramount and we continuously invest in new machinery and training our staff to ensure we can always deliver quality service and reliability.



ISO 13485



AS 9100D / ISO 9001:2015



JOSCAR Registered



UL Type 2



UL Type 3



IPC-A-600 Certified



Cyber Essentials Plus

# Our Industries

We serve a wide range of industry sectors with a range of requirements:



Medical



Automotive



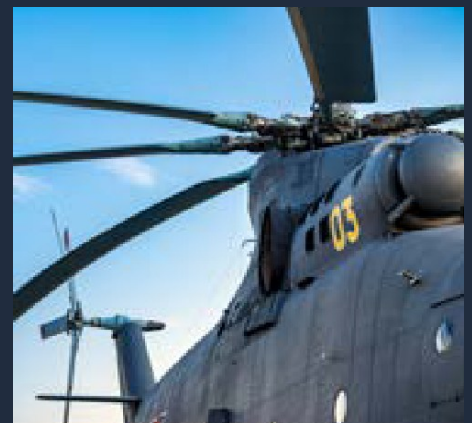
Aerospace



Seismology



Audio & Broadcasting



Defence



Measurement & Instrumentation



Power Supply



IOT

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## A message from the Account Managers at Garner Osborne:

We pride ourselves on excellent communication and customer service, putting customers at the forefront of everything we do. We strongly believe that great relationships are built on honesty and we operate an open-book policy with all our customers to ensure transparent relationships.

We provide a wealth of experience and knowledge in all aspects of electronic manufacturing services, and we aim to provide the highest level of reliability and quality for all things PCB manufacture and PCB assembly.

We are just a phone call away and our door is always open! We look forward to welcoming you and nurturing new relationships.

# Testimonials

*Don't just take our word for it! See what some of our customers have to say:*



Garner Osborne Circuits are the best amongst the companies we've dealt with within the PCB & PCBA industry. And good companies are made with good people.

Always fast and supportive!  
Thank you!

Production Manager



I have worked with Garner Osborne for many years and have always found them to be very professional and with a great quality end product. They are always willing to provide technical advice and help with designs whenever asked. An absolute pleasure to work with!

PCB Designer



We are very happy with the service we get from Garner Osborne for our work in the aerospace and defence sector.

Their prices always beat their competitors, their deliveries are always on time and the customer service is excellent.

Production Assistant & Stock Controller



We are a fast-growing Condition Monitoring IOT business and GOC have supported us with NPI from initial pre-production products through to volume PCB, PCBA and box build manufacture. They are very professional, helpful, and have repeatedly done the right thing and supported us when any issues have arisen.

Operations Manager



Just had my first batch of PCBs with Garner Osborne - they also did the PCB testing and device assembly and testing at reasonable pricing. All with amazing customer support throughout the process. Very happy.

Founder & CEO



# GarnerOsborne<sup>©</sup>

Start working with a UK PCB & PCBA manufacturer  
that prides itself on service and quality.

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