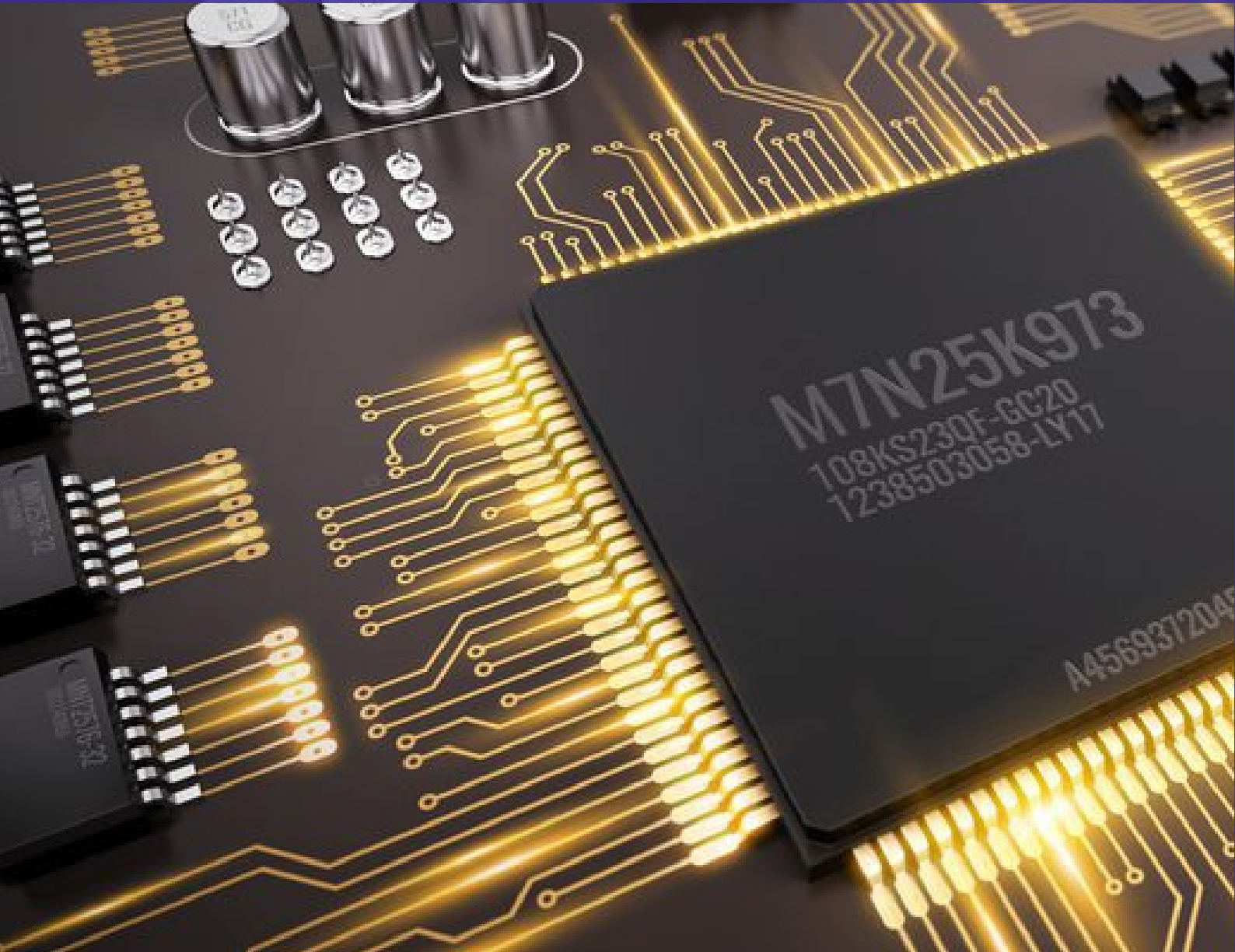




Total PCB Solutions
From design through to assembly

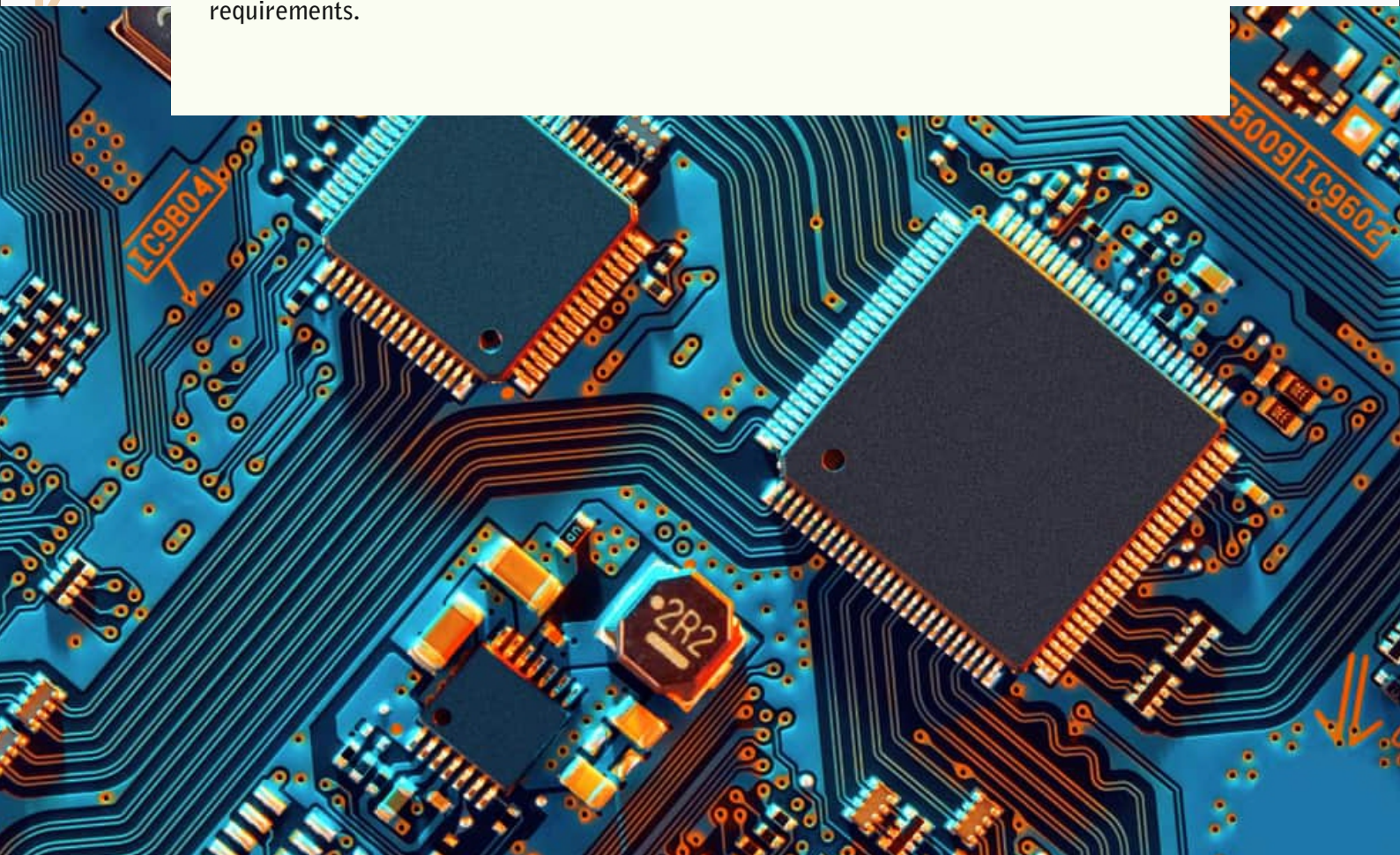
About us

Hallmark PCB Services is a electronics manufacturing company, who have offered a state of the art Indian electronics manufacturing service for almost 7+years.

We have refined our processes to ensure we can offer the highest quality PCB products in the shortest possible time.

Our attention to quality is where we exceed other PCB assembly companies. Our PCB products are inspected all through the PCB production process to ensure the highest quality printed circuit boards are delivered to you.

With the state-of-the-art technologies we employ, along with our highly trained workforce we are able to ensure that every PCB we provide matches your design requirements. We would like to hear from you if you have any questions or special requirements.



Our Guarantee

Hallmark PCB Services give guarantee that we want you to be 100% DELIGHTED with the quality of your printed circuit board and the speed and reliability of the PCB Manufacturing service you receive from us.

That's why we GUARANTEE you the following on your PCB:



- 1 Your single sided or plated through printed circuit board can be **PRODUCED WITHIN 7 WORKING DAYS** from the receipt of your PCB data as standard with no premium.
- 2 If you require your printed circuit boards faster we can provide you with an 8 hour turnaround PCB Manufacturing service.
- 3 Your drilling data will be reproduced exactly both in position and diameter, improving your assembly procedures on your printed circuit boards.
- 4 Your printed circuit boards are inspected at 7 separate stages to ensure a perfect final PCB.

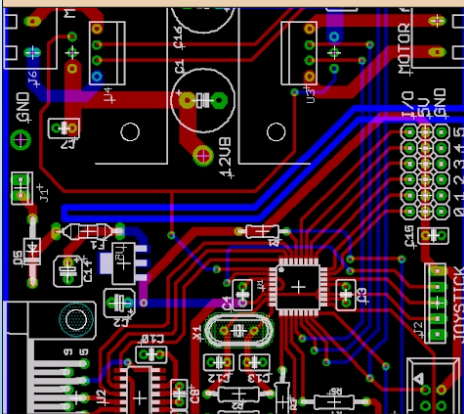
Your circuit boards can be electronically bare board tested to GUARANTEE no shorts or opens, ensuring you will get no assembly or test problems from your PCB.

All of this means you will have the confidence and peace of mind knowing your PCB will match your specification and you will receive our circuit boards on time, every time ... GUARANTEED

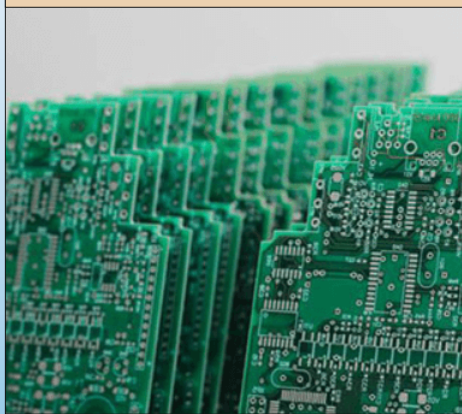
Our Services

Hallmark PCB services is an electronic product design house offering end-to-end product development services. We help companies from ideation to manufacturing and scale their products from prototypes to large-scale production. We can design Multilayer, High complexity, highly dense PCBs. We are Experts in Reliable PCB Layout and Manufacturing Design that results in Cost-Effective Products.

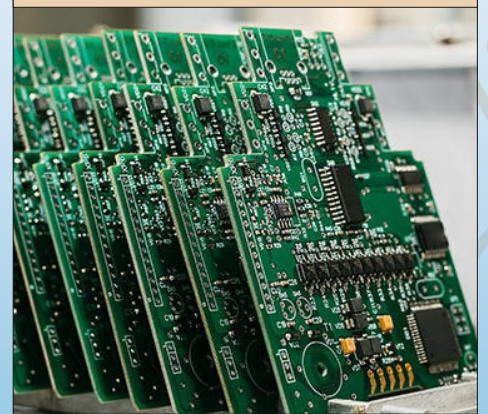
PCB design



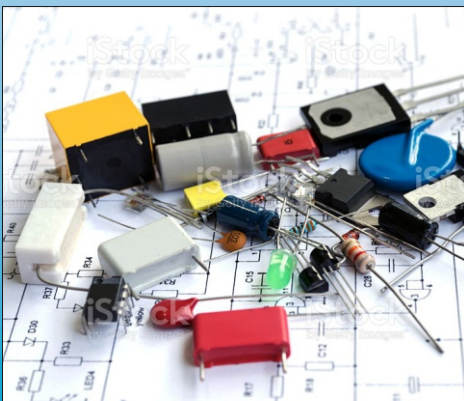
PCB fabrication & assistance



PCB assembly



Component sourcing



Turnkey product development



Enclosure Design



PCB Services

PCB Design

Circuit Board Design by In-House Experts

Our PCB design is done by an in-house CAD team, and our entire design and production process takes place at our factory in Gujarat, our circuit boards in India helps to ensure the quality that you need, and allows us to offer the fastest lead times of any Indian PCB manufacturer.

PCB Manufacturing

A Crucial Step in Preparing Your Specified Circuit Designs

Our PCB prototype service is among the fastest and most reliable in the industry. We aim for same-day delivery of working test models. If you need to ensure the core circuits of a PCB design will function as intended on an assembled board, we can get one to you in as little as eight hours. Prototyping is a key part of a complete bespoke PCB service, and a crucial step in preparing your specified circuit designs for a full manufacturing run.

PCB Prototypes

Fast PCB Prototype Manufacturing

Our efficient production facility and skilled workforce can produce PCB prototypes within 8 hours from receipt of data. As one of the country's most reliable and trustworthy PCB manufacturers, you can be rest assured your PCB prototype will be manufactured, quality checked and returned to you for your own testing or development in the shortest possible timescale.

PCB Assembly

Fully Assembled PCB

Our PCB assembly service takes away from the time-consuming stress of component procurement and assembly. We use our skills and expertise to produce fully assembled Printed Circuit Boards delivered to your door, providing you with a complete project management service. After designing and making your PCBs, we can either assemble boards using your own components, or we source components on your behalf.

PCB Services

PCB Reverse Engineering

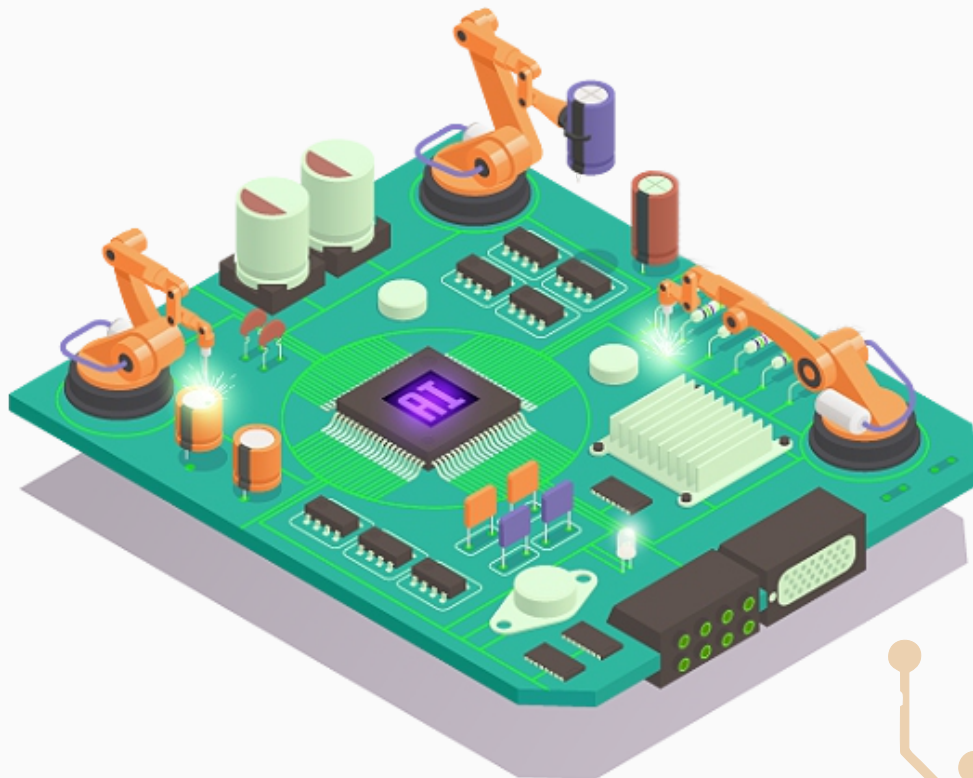
Recreated PCBs with Perfect Functionality

Our reverse engineering service allows us to reproduce existing boards, recreate and improve faulty PCBs, or design all new boards to replicate the functionality of those you already have. We do this by computer-scanning artwork, photos or PCBs to gather CAD data that allows us to produce new boards. This is a much cheaper process than a total redesign, and one that ensures your new PCBs will function just like your existing ones.

Total PCB Solutions

Your PCB Needs Met from Start to Finish

As well as offering individual services such as PCB design, prototypes, manufacturing and assembly, Hallmark pcb services can provide you with a total PCB solution, from start to finish project managing the whole process. This begins with a customer consultation, so we know exactly what your needs are. We then move onto the design, function and form of your PCBs, while offering top-of-the-market project management from consultation right through to manufacture, assembly and delivery. This means you can focus on running your business while we handle your PCB requirements.



PCB Design

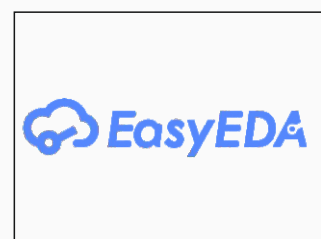
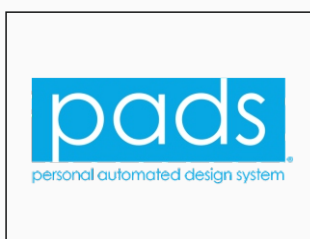
7+ years of experience in offering Custom PCB Design Services for Single, Multi and multi-layer PCB layout and analysis for complex multi-processor and multi-layer boards with proven PCB Layout Design services methodologies, process and quality checks. Our engineers prioritize performance, manufacturability, cost, and design for testability to ensure the best possible Design.

PCB designers at Hallmark PCB Services have the experience to bring your boards to life.

Whether you're developing a new product or reverse engineering an existing one, we also ways perform at the best level.

PCB board designers and electrical engineers building prototypes or bringing products to market Contract manufacturers who need fast, predictable lead times Purchasing teams who require pricing and supply-chain transparency Tinkerers, hobbyists, and builders who would benefit from the expertise of our in-house CAM engineers

PCB Design Tools



Types of PCBs

Single sided PCBs

Single sided PCBs, or single layer PCBs, were the first printed circuit board technology and have been around since the 1950s. They remain one of the most commonly used circuit boards due to their simple design. They're made with one layer of conducting material on one side, while the other side is used for incorporating different electronic components. The base material is coated with a thin layer of copper due to its ability to function as an electrical conductor. These boards can be used in many complex electronic devices, such as calculators, radios and stereo equipment.

Double sided PCBs

Double sided PCBs, or plated through hole (PTH) PCBs, have a base material with a thin layer of copper on both sides. They allow for closer routing traces as they can alternate between the top and bottom layers using via holes. This is useful for many electronic products as the tracks on one side of the board can be connected to the other using holes drilled into the board. Components are connected through surface-mount technology or through hole technology, depending on product requirements. These PCBs are used in devices or applications requiring an intermediate level of circuit complexity, such as LED lighting and industrial controls, as well as medical and aerospace applications.

Multi layer PCBs

Multi layer PCBs are circuit boards with more than two layers - usually between 4-12, or sometimes more. These layers are laminated together under high temperatures and pressure, ensuring no air is trapped between the layers and that the specialised glue used to secure the boards together is properly melted and cured. Multi layer PCBs have several benefits compared to single or double-sided PCBs because of the internal layers. They can be smaller but also have a higher assembly density, and the benefit of inner ground and power planes. Multi layer PCBs are commonly used in electronic devices such as computers, GPS technology and satellite systems and space technology.

Types of PCBs

Rigid PCBs

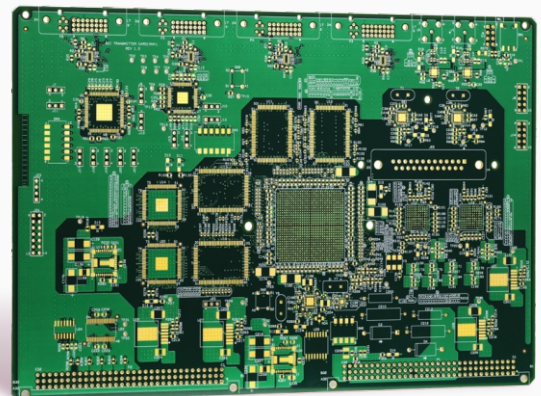
Rigid PCBs are solid, inflexible circuit boards that can't be bent or twisted, thanks to their solid substrate. They're used in devices and applications where there is a need for the PCB to be made in a certain shape, and remain that way throughout its lifespan. While some PCBs are single-sided, double-sided or multilayered, rigid PCBs can take any of these forms. However, once they've been manufactured they can't be modified or changed. Rigid PCBs are used in many products that we rely on daily, such as GPS equipment, mobile phones and tablets, X-rays and heart monitors.

Flexible PCBs

Flexible PCBs are typically mounted onto plastic substrates, meaning they can move or flex. They're usually thin, lightweight and work well in small spaces and contoured shapes. As they need to be printed onto flexible material, they tend to be more costly to manufacture. That said, they offer many advantages over rigid PCBs. They require less space and they weigh less than an ordinary circuit board. They also require less material and less packaging, and replacement costs are lower. Flexible PCBs are commonly found in computer hard drives and printers.

Rigid-Flex

A Rigid-Flex PCB is a hybrid board combining elements of flexible and rigid PCBs. The result is a PCB that can be folded or continuously flexed. The flexible layers are buried within the board and penetrate through its rigid sections. Design is more complex as these boards are planned in 3D, allowing them to be folded or twisted to create a desired shape for a product. These PCBs are usually thinner than others, allowing for a more streamlined design, reducing board size and package weight. They're found in products where space or weight are vital, such as pacemakers, digital cameras and smart phones.



Contact us for a free bespoke quote!

Get In Touch

With almost 7+ years experience in the industry. We know a thing or two about PCB manufacturing!

Should you wish to discuss your PCB requirements further, or want a bespoke quote we'd love to help.

Additionally, if you can't find what you are looking for, please don't hesitate to get in touch directly.



Contact us for more details on
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