



An engineering business, driven by engineers: Lascar is built on a deep foundation of engineering knowledge and understanding. It's something we've always nurtured, and continue to develop in order to provide the best possible results for our customers.

## **Component Sourcing**

*A fully-managed procurement process*

We enjoy the benefit of group purchasing power. This means we source components globally, while keeping costs at a minimum. Low expenditure like this is key to offering customers the most efficient product manufacturing solutions. We only purchase from franchised distributors, or directly from component manufacturers themselves – our procurement process is also fully traceable.

## **PCB Design and Assembly**

*High-quality tools making high-quality products*

We use some of the most advanced PCB assembly machines available, allowing us to place components down to 01005 and uBGAs. Multiple reflow zones protect the board and components from stresses such as thermal shock. Selective soldering provides reliable electronic connections and board stability across many different substrate types. We also provide conformal coating and encapsulation.



## **In-house Production Engineering**

*Professionals on the ground eliminate the need to outsource*

Our engineers have intimate knowledge of every product we create, meaning they can troubleshoot on the fly, quickly identify development opportunities, and seamlessly share knowledge and experience between one another on a daily basis. And, our core engineering teams aren't just in one place: we have teams in the UK, USA and Hong Kong, meaning we can react quickly to design challenges, narrowing the physical and geographical separation for a more collaborative approach.



## Quality Assurance and AOI Inspection

*We are dedicated to rigorous quality inspection and improvement*

We use world-leading 3D AOI inspection to pick up on the smallest faults and make sure our boards meet the required standards to the finest detail, on top of being inspected by our engineers who are all IPC-A-610 trained. Our Production Part Approval Process (PPAP) fully inspects a number of boards in the first batch to ensure any errors can be rectified before full scale production goes ahead.



## Far East Manufacturing

*High volumes with low price points*

Our quality teams apply IPC 610 class 3 inspection standards, meaning we maintain the same quality processes throughout the supply chain, with in-depth inspections at each stage. Through our established relationships and regular auditing practices with global suppliers, we ensure all components used are of the highest quality and come with full traceability. These combined elements of our expertise mean you can take advantage of Far Eastern high-volume and low source-cost production without complexity or compromising on quality and service.



## We Bring Your Concepts to Life

*Let us oversee your entire product development plan*

Our unbeatable turn-key manufacturing service means you can hand your whole project over to us. We will drive costs down and actively search for functional improvements, all while ensuring a quality end result. From sub-assemblies to box build, we can even design our packaging for you and supply finished goods ready for your customers. And, because we have warehouse facilities on three continents, we can hold ready stock for you worldwide.



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