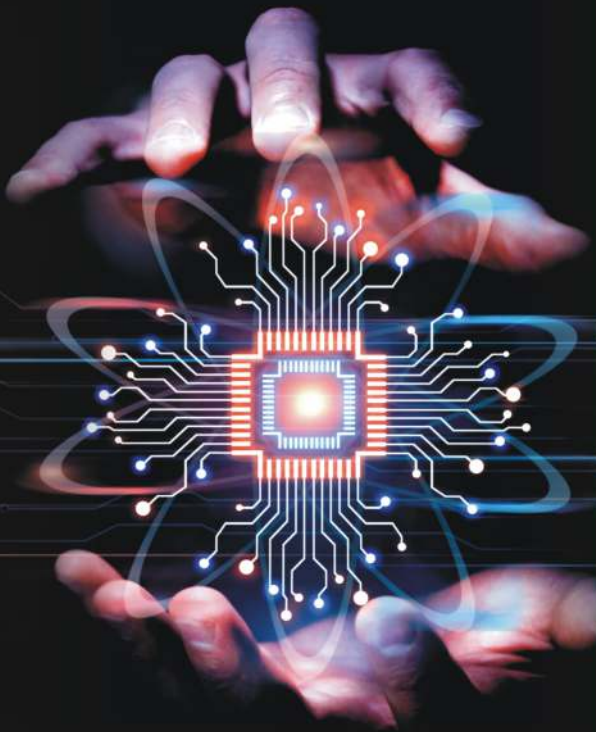


Reliable And Rapid Assembled PCBs



About Elventive



Welcome to **Elventive Tech Private Limited**, your premier partner for advanced PCB assembly solutions.

At **Elventive**, we harness the precision of Japanese Automated Machines to elevate the quality of our electronic manufacturing services. Our commitment to technological excellence ensures we meet the unique needs of each project with unparalleled accuracy and efficiency. Founded on the principle that our client's success is paramount, our team brings a wealth of expertise to every endeavour.

We are dedicated to forging long-term partnerships with our clients, offering tailored solutions that drive their projects forward. Our state-of-the-art equipment and seasoned professionals are at the core of our operations, enabling us to consistently deliver superior PCB assemblies that set industry benchmarks.

At **Elventive**, we are more than just a service provider, we are a dedicated ally in your technological journey, striving to bring your innovative projects to life with reliability and finesse.

- Rapid Prototyping
- Design for Manufacturability
- Process Innovation and Customisation
- New Technology Development
- New Product Introduction Support
- Jigs and Fixtures Design
- Industrial Engineering
- End-to-end Solution



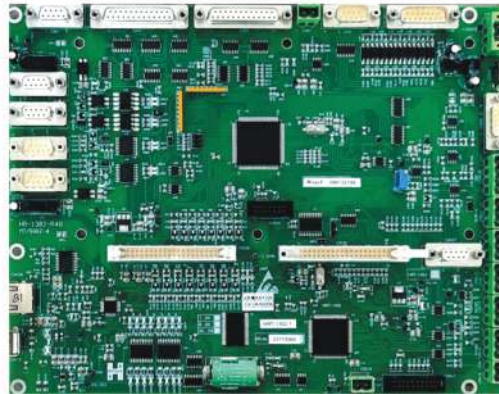
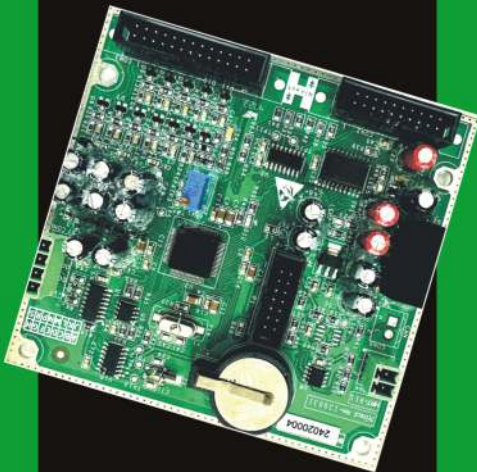
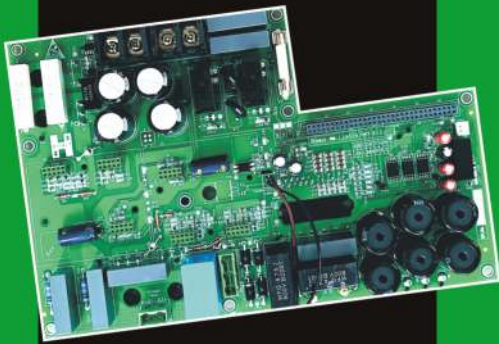
Facilities We Provide

High Voltage Gate Drivers

Elventive's high voltage digital gate drivers cater to low and high power, high voltage, and high availability applications for IGBT and SiC MOSFETs.

Built on the proven Amantys design, our products feature advanced control, protection, and programmable functions for optimal performance. The gate drivers are available for 1.7 to 3.3 kV and 4.5 to 6.6 kV devices and can be customized. Applications include traction, induction heating, AC drives, solar, wind, HVDC, EV, and more.





PCB Assembly Services

Elventive is a vertically integrated PCB company serving premium customers across diverse industries and applications. Our automated highspeed SMT line, equipped with advanced optical testing facilities, offers reliable multilayer PCB design and assembly for both through-hole and SMT high-density solutions. We support rapid prototyping and turnkey projects to accelerate client's development activities.

Our PCB assemblies, backed by 100% quality assurance, are supplied to various sectors, including Traction, Industrial, Marine, Defence applications and more.

SMT Process

Surface Mount Technology (SMT) is a technique used to attach electronic components directly onto the surface of a PCB. Our EMS capabilities are reflected in the sophistication of our SMT operations at Elventive.

This multi-step process starts with the precise application of solder paste to bare PCBs using a specialized stencil. Our fully automated Japanese pick-and-place machines then accurately position components onto the board.

Following assembly, the PCBs proceed through our sophisticated reflow ovens, where the solder is heated to the perfect temperature to ensure solid and reliable bonds. Throughout the SMT process, we conduct multiple automated inspections to ensure the highest quality of every product we manufacture without reducing the throughput.



5

Elventive's process of Through Hole PCB Assembly, a technique where we meticulously insert the leads or terminals of components into pre-drilled holes on our PCBs. These are then securely soldered, utilizing either manual methods or advanced wave soldering technology, ensuring that each component is firmly in place. This method not only fortifies the connection between the circuit and its components but also enhances the durability of the board. Predominantly used for single-layer and two-layer PCBs, the through hole assembly process was the standard in the industry until the advent of Surface Mount Technology.



Through Hole Process



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