

Our complete design and manufacturing solution offers you more

- Complete in-house product design including:
 - system-level conceptual design
 - software development and verification
 - circuit design and 3D mechanical design
 - full prototyping, testing and validation
 - agency approvals and product compliance
 - extensive internal/external testing
 - world-class resources for product development.

State-of-the-art automated equipment is the backbone of our manufacturing facility. Automated surface-mount and through-hole technologies, conformal coating, encapsulation and in-circuit testing, sophisticated MRP software, value-added assembly, customized packaging and flexible delivery options make us the preferred supplier to industry leaders in many sectors.



ISO 9001:2000 and Six Sigma certification, combined with our relentless dedication to quality at every step of our process make us a trusted supplier to both domestic and international manufacturers.

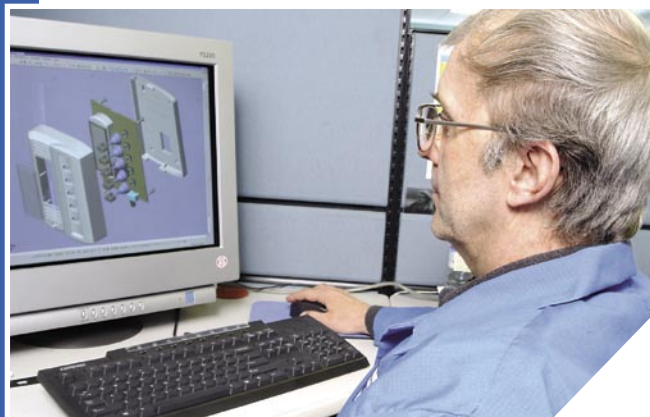
Total Acquisition Management™ (T.A.M.) and onshore/offshore options simplify your purchase process, manage volume-related variables and streamline logistics.

- Contact Etratech today to discover how our advanced electronic controls can enhance your product line.



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Controls designed with a competitive advantage

Etratech is the key to your product's success. Our multifaceted engineering group is dedicated to the design and development of custom electronic and electromechanical control systems. We ensure total customer satisfaction through a forward-thinking design-for-manufacture approach to every project.



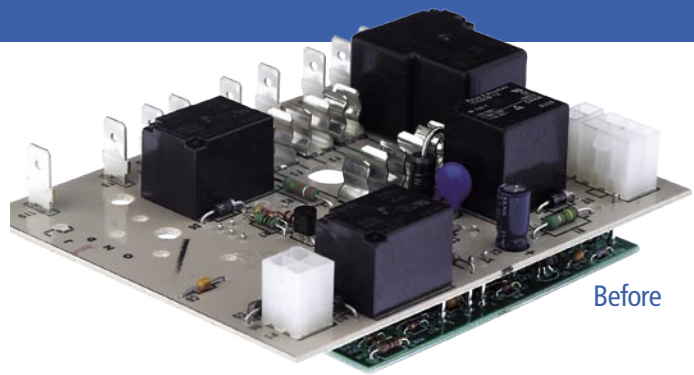
Advanced electronic controls start with leading-edge design

We provide complete analog and digital circuit design and analysis, testing, approval consultation and automated assembly of finished products. Our customers include leading international manufacturers in the appliance, HVAC, automotive, recreational vehicle (RV) and consumer electronics sectors.

Etratech delivers unsurpassed service, quality and value with very competitive pricing. Our Customer Support Management Team becomes your primary contact from initial concept review through the continuous production of your products in our state-of-the-art facility.

Our process starts with complete hardware and microprocessor-based software design and development, software testing and verification, design failure modes and effects analysis (DFMEA), component selection, validation and reliability testing, printed wiring board design and layout to agency requirements.

From jigs and fixtures to layouts and boards, prototype construction is done in-house, with our lab providing prototype verification and software analysis, board-level reliability testing and electrical and environmental testing including AC/DC voltage extremes, EMI and



Before

Design for Manufacture means measurable advantages in cost and quality for our customers – more compact board layouts, intelligent component placement, integrated enclosures, rapid time to market and high reliability.



After

High-speed surface-mount technology resulted in 62% cost reduction and 40% reduction in size.

RFI emitted and susceptibility, hot and cold temperature cycling, durability, vibration and shock testing, humidity and electro-migration.

Our mechanical engineering expertise includes plastic and metal enclosure designs, actuator designs and light pipe designs all utilizing cutting-edge 3D modelling technology as well as injection mold tooling co-ordination.

We can co-ordinate agency approvals of your products to a variety of agencies including UL, CSA, VDE, TUV, AGA and CGA and interact as needed to ensure timely and efficient approval processing.