ThermOmegaTech®

Electronics Division

LEADING THE WAY—
CONTRACT MANUFACTURING SERVICES

Printed Circuit Board & Electro-Mechanical Assembly
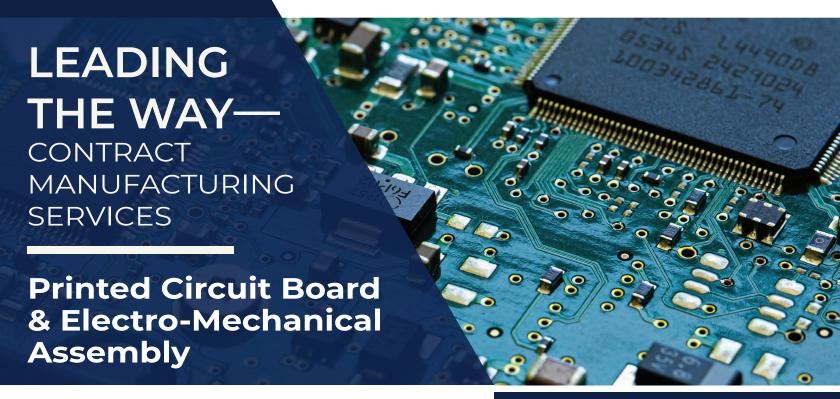
ThermOmegaTech's Electronic Division, located in Warminster, PA, specializes in custom PCB assembly and electro-mechanical assembly for customers in the Aerospace and Defense, Medical, Industrial, LED lighting, and non-commodity consumer electronic markets.

ThermOmegaTech's Quality Management System (QMS) is certified to AS9100D standards, which are based on and include ISO 9001:2015 standard. Due to our Aerospace and Defense industry growth, we have decided to pursue AS9100D as our primary QMS to create standard operating procedures across all business segments. This allows us to enhance the quality of our products and services while increasing efficiencies and alleviating costs to our customers.
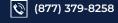
By partnering with ThermOmegaTech® for your electronic contract manufacturing needs, you get 30+ years of PCBA experience, cutting-edge technology, stringent quality control procedures, and custom turnkey PCB assembly solutions through trusted relationships and partners to satisfy your quality, timing, and cost-efficiency needs.

WHO WE ARE

We strive to provide responsiveness and accuracy by utilizing modern process methodology, real-time communication, and employee empowerment and training to better help our customers succeed.

OUR PCBA CAPABILITIES

- Rigid, Flex, Rigid/Flex
- SMT/Thru-Hole/Mixed Technology Processing
- Single or Double-Sided Configuration
- Lead & Lead-Free Processing
- High-Density/Low to High Volume Capacity
- 1200mm PCB Length Assembly Capability
- Processing Components Down To 01005 and Fine Pitch Down To 0.3mm (BGA, QFN, QFP)

(877) 379-8258

TOTElectronics.com

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PCB Assembly

ThermOmegaTech® provides high quality PCB assemblies utilizing SMT, through-hole, and mixed technology soldering methods. With mounting speeds up to 45,300 cph, and fine pitch down to 0.3mm, our smart automated assembly lines give us the speed, accuracy, and flexibility to meet the most rigorous and specialized PCB requirements.

Electro-Mechanical Assembly

ThermOmegaTech® can help you take your PCB designs and turn them into functional products by incorporating additional components such as AC & DC power units, digital interfaces, audio/video, and insulation displacement. We can also provide over-molded packaging using injection molding technology to provide mechanical and moisture protection for your boards as well as vibration resistance.

LED PCB Assembly

ThermOmegaTech® offers custom LED PCB assemblies, including AC and DC LED modules, custom modules, and compatibility with commercial IoT controls. Our smart, automated equipment allows us to manufacture simple to complex PCB assemblies of any shape and size up to 460mm (18.11") wide to 1200mm (47.24") long for integration into lighting fixtures in low to high volumes with high precision and reliability.

PCB Prototyping

Specializing in prototype PCB assembly and small-volume production, ThermOmegaTech® will go above and beyond to ensure high-performance electronic prototyping and comprehensive testing so that your product is safe, manufacturable, and ready to go to market. We will explore your concept, uncover any design problems, and generate new ideas and opportunities to improve design for manufacturability (DFM).

EQUIPMENT

- ASM Pick & Place Machines
- 8 Zone & 5 Zone Reflow Ovens
- 3D Paste Inspection Machines
- 3D AOI (Automatic Optical Inspection) Systems
- X-Ray Inspection System
- Stencil Printers
- Wave Solder & Selective Solder Systems
- Injection Molding Machine

PROCESSES

- Environmentally Safe Board Cleaning With De-Ionized Water Recycling
- ROSE Testing
- Humidity Controlled Storage for Moisture Sensitive Devices
- Electrostatic Discharge Flooring to Protect Sensitive Electrical Components
- IPC Class 2
- High Reliability Class 3

CERTIFICATIONS

- AS9100D
- J-STD-001
- IPC-A-610
- IPC-WHMA-A-620
- ANSI/ESD-S20.20

MARKETS SERVED

- Aerospace & Defense
- Medical
- Industrial
- LED Lighting
- Non-Commodity Consumer Electronics

We are also RoHS compliant where required, DDTC registered, recognized by major defense contractors as a "3 Star Supplier," and a preferred supplier list member for electronics contract manufacturing.