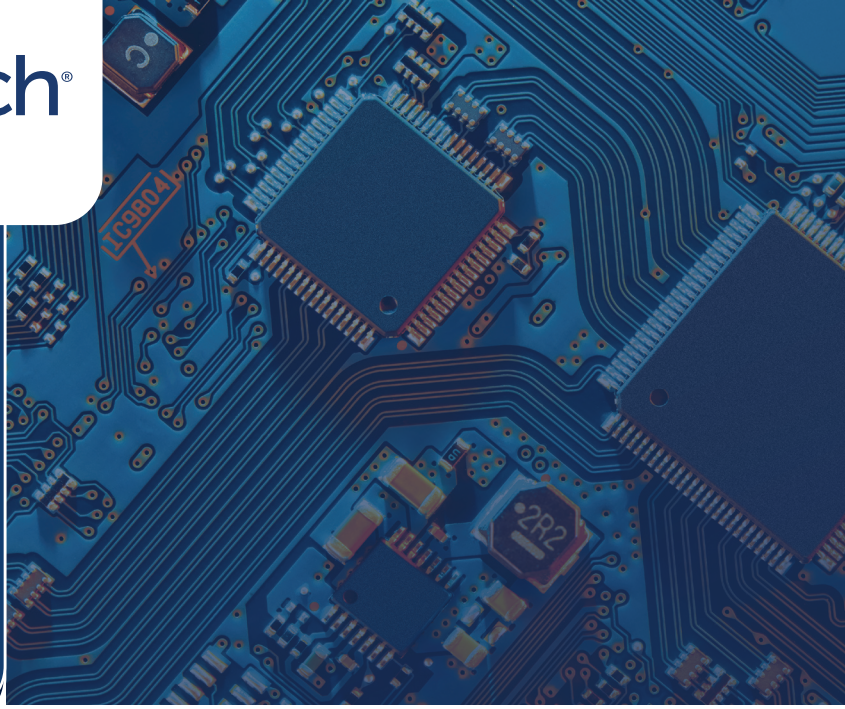
ThermOmegaTech®

Electronics Division

Leading The Way in Electronics Contract Manufacturing

Printed Circuit Board & Complete Product Assembly



Why Choose Us?

Located just outside of Philadelphia, PA, ThermOmegaTech's Electronic Division provides custom PCB assembly and complete product build services for Aerospace and Defense, Medical, Industrial, LED lighting, and specialty consumer markets. Our AS9100D-certified Quality Management System ensures standardized processes, enhanced product quality, and cost efficiency across all projects.

With 30+ years of PCBA expertise, advanced technology, and rigorous quality control, we deliver PCBA solutions that meet your quality, timing, and budget needs.

In-line Manufacturing Equipment Highlights

- **Automated Stencil Printers** with SPI
- ASM Pick & Place Machines
- **13-Zone Reflow Oven** with Nitrogen Environment
- 3D Automatic Optical Inspection
- **Board Loaders and Unloaders**



Key Capabilities

- PCB Types: Rigid, Flex, Rigid/Flex (Single or Double Sided/Multi-Layer)
- Assembly Techniques: **IPC Class 2/3 Surface Mount, Thru Hole, and Mixed-Technology Processing**
- Processing: Lead & Lead-Free
- **Fine Pitch: Down To 0.3mm (BGA, QFN, QFP)**
- Materials: FR4, Rogers, Copper, Ceramic, Duroid, Aluminum, High-Temperature Laminates

Additional Manufacturing Equipment

- **Selective Solder Systems**
- **X-Ray Component Counting** & Contamination Testing
- Low Pressure Overmolding Machine
- **PVA Automated Dispensing Technology** (Epoxy, RTV, Conformal Coating)
- Microscopy & Manual Inspection Systems
- **X-Ray Inspection Systems**

GET IN TOUCH

(877) 379-8258

TOTElectronics.com

orders@ThermOmegaTech.com

353 Ivyland Rd. Warminster, PA 18974

AS9100D CERTIFIED ISO 9001 · IPC J-STD-001 · IPC IPC-A-610 · RoHS compliant · ESD Association ANSI/ESD S20.20 Certified

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OUR FACILITY

ThermOmegaTech's state-of-the-art facility meets the strictest production requirements. Equipped with precision pick-and-place machines, multi-zone reflow ovens, and 3D optical inspection systems, our automation ensures consistency and high-performance assembly.

We maintain robust environmental controls, including ESD flooring and a humidification system for optimal assembly conditions.



ASSEMBLY SERVICES

TURNKEY

We source and procure all printed circuit boards and components.

CONSIGNMENT

Customers provide us with PCBs and/or parts for flexible assembly.

PCB ASSEMBLY

ThermOmegaTech® provides high quality PCB assemblies utilizing SMT, through-hole, and mixed technology soldering methods. Our smart automated assembly lines give us speed, accuracy, and flexibility to meet the most rigorous and specialized PCB requirements:

- 1200mm PCB length assembly capacity
- Prototyping through low-to-high-volume requirements

COMPLETE PRODUCT ASSEMBLY

While we specialize in printed circuit board assembly, we manage full product buildout through trusted, strategic partners in our region. All managed under one roof, this approach gives you:

- Single point of contact
- Tight quality control across the entire project
- Streamlined logistics and reduced lead time

PROCESSES

- Environmentally safe board cleaning with de-ionized water recycling
- Humidity controlled storage for moisture sensitive devices
- Electrostatic discharge flooring to protect sensitive electrical components
- Cleanliness verification

REQUIRED QUOTE INFORMATION:

PCB Files/Data

- ☐ Gerber + Drill Files
- ☐ **PCB Fab Drawing:**
  - ☐ RoHS/Leaded Requirement
  - ☐ Board Material and Copper Thickness
  - ☐ Glass Transition Temperature (Tg)
  - ☐ Board Thickness and Finish
  - ☐ Mask/Silk Color
  - ☐ Stackup
- ☐ Centroid/Pick & Place Data
- ☐ CAD Data
- ☐ If Consigned; Panelization Data

For more information and assistance with the quoting process, please contact us.

PCBA Bill of Materials

- ☐ Quantity Per
- ☐ Mfg. and Mfg. Part Number
- ☐ Value/Description
- ☐ Reference Designators
- ☐ Alternates List
- ☐ Do Not Install List

PCBA Files/Data

- ☐ **Assembly Drawing:**
  - ☐ Assembly Instructions
  - ☐ Component Placement
  - ☐ RoHS/Leaded Requirement
  - ☐ Solder/Flux Type
  - ☐ Cleaning Instructions

SCAN TO START YOUR QUOTE PROCESS TODAY

TOTelectronics.com orders@ThermOmegaTech.com

Electronics-Brochure
REV: 11/12/2025