Certifications

- ISO 9001
- ISO 13485
- AS 9100:D
- IPC-A-610 Class 1,2,3
- QC 080000 RoHS/HSF
- ANSI J-STD-001
- ITAR

services

Manufacturing:

- System Build
- PCB Assembly
- Mechanical Assembly
- SMT
- Thru Hole
- Functional Testing
- Supply Chain Management
- Process Documentation
- Flexibility
- On-time delivery
- 65,000 Square feet
- World-class manufacturing

Engineering:

- Full Systems Design Scheduling & Management
- DFM – Manufacturability
- Sustaining Engineering
- Test Configuration
- RoHS & SMT Conversion
- Process Design Conversion
- Cadence Design Tools
- Altium Design Tools
- Solid Works Professional 3D
- AutoCAD 2D
- Aegis - Checkpoint and CircuitCam
- LabVIEW Functional Test Design & Throughput Automation

logistics

- Supply Chain Management
- Automated Procurement of materials
- Customer Inventory Warehousing
- Domestic and International Shipping
- Kanban
- Consignment inventory
- Dock-to-Stock
- Warranty and Repair Services

lean manufacturing

- Paperless Manufacturing System
- Maximize Space Utilization
- Activity Relationships (Pull)
- Cellular Piece Work Flow
- Material Handling
- Just-In-Time
- Continuous Improvement Programs
- Work Station Design
- Rapid Changeover
- 5 S's
- Value Stream Mapping

markets served

- Department of Defense
- Medical
- Clean Energy
- Telecom
- Datacomm
- Semiconductor
- Controls and Measurement
- Transportation
- Industrial
- Data Storage
- Security
- Aviation
- Aerospace

Advancing Technology from Concept to Reality.

equipment list

Certifications

- ISO 9001
- ISO 13485
- AS 9100:D
- IPC-A-610 Class 1,2,3
- QC 080000 RoHS/HSF
- ANSI J-STD-001
- ITAR

SMT Pick and Place Equipment:

- 3 Universal Instruments – Genesis Series I GC-30S High-Speed SMT (34k CPH)
- 4 Universal Instruments – Genesis Series I GX-7S Multi-function SMT (15k CPH)
- 1 Universal Instruments – Fuzion xc2-37 Multi-Function High capacity SMT Assembler

Stencil Printers:

- 5 Ekra Serio 4000 screen printers

Reflow Ovens:

- 1 Vitronics-Soltec – Model XPM3i-1030 Convection Reflow Oven (13 zones)
- 1 Vitronics-Soltec – Model XPM-820 Convection Reflow Oven (10 zones)
- 1 Vitronics-Soltec – Model XPM-520 Convection Reflow Oven (7 zones)
- 2 BTU – Model PYRAMAX100 Convection Reflow Oven (10 zones)

Thermal Profiling Equipment:

- KIC – SlimKIC 2000 Thermal Profiler
- 5 Contact Systems – CS400x Semi-Automatic Component Inserter

Automated Through-Hole Equipment:

- Universal Instruments – 6241B VCD Axial Inserter, 6287A VCD Axial Inserter and 6790 DIP Inserter
- 4 Contact Systems – CS400 Semi-Automatic Component Inserter

Selective Solder Equipment:

- 2 Pillarhouse – Jade Handex Selective solder machine
- 1 AirVac – PCBRM-15 Solder Fountain
- 1 Vitronics / Soltec 6746

Wave Solder Equipment:

- 1 Electro Vert Vectra Elite leaded wave solder machine
- 2 Henry Mann leaded wave solder machines
- 1 Henry Mann leadfree wave solder machine

Cleaning:

- 2 Stoelting ABC 3500 Batch Wash
- 1 Westek – Triton IV Aqueous Cleaner
- 1 SCS-Ionograph 500 STD

Surface Mount Repair/Rework Equipment:

- 1 ERSA 600/2 Rework Machine

Inspection:

- 1 Phoenix X-RAY – PCBA Analyzer 160
- 1 ERSA – ERSAScope 2 Inspection System
- 5 Mirtec AOI 3D Inspection System
- 3 Vision Engineering – LYNX Stereo Dynascope
- 4 Vision Engineering – TS-4 Stereo Dynascope
- 7 Vision Engineering – Mantis Microscopes
- 4 Generic Microscopes

Test Equipment:

- Genrad – Model 2286i In-Circuit Tester
- Genrad – Model 2287 In-Circuit Tester
- Seica – Pilot VIP Flying Probe
- Takaya-APT-9401 CJ Flying Probe
- Checksum -Model TR-8 MDA Tester
- Tektronix – TLA715 Series Logic Analyzer
- Ionograph – SCS and Alpha Metals
- LabVIEW – Automated Functional Test

Environmental Test Equipment:

- 2 Thermotron SE-3000-15-15 Environmental Chambe
- ESPEC Model ENZ28-15C Environmental Chamber
- Test Equity 3007C Environmental Test Chamber

3D Printer: MakerBot Replicator 2X

Cleanroom: Class 1000 onsite