

Capabilities Statement

PCB Design & Layout

Utilizing client specifications, ACDi provides layout and design services through the use of the latest tools and standards in the industry. In addition, ACDi's PCB design team provides the added benefits from design for manufacturability (DFM), design for assembly (DFA), design for test (DFT) and design for cost (DFC) to further validate designs and prevent delays during production.

PCB Layout Strengths

- High Speed Digital Designs
- High Frequency, RF Designs
- DDR4 Memory
- Rigid, Flex, Rigid-Flex
- Dense Form Factors
- Stacked, Blind, and Buried Vias
- Multiple Layers – 26+

PCB Layout Design Tools

- Cadence Allegro
- Altium
- Mentor Pads
- Mentor Expedition
- Valor NPI
- Polar Speedstack
- OrCAD
- BluePrint PCB

PCB Manufacturing & Assembly Services

From fabrication, surface mount, box builds and systems manufacturing to cables, harnesses and interconnects, our IPC-certified production team has OEMs covered. As your end-to-end electronics manufacturing partner, we will ensure that your project stays on schedule and exceeds your quality expectations every step of the way.

- 4 Manufacturing Facilities
- 100,000+ sq. ft.
- Prototypes to Box Builds and Upper-Level Assemblies
- Turnkey/Consignment
- Low to Medium Volume, Medium to High Mix
- 9 SMT Lines
- Selective Solder, Wave Solder, Hand Solder

Test/Inspection Services

With a keen focus on precision, efficiency and quality assurance, we offer a wide range of test solutions to ensure the reliability and performance of your electronic products. Some of our testing capabilities include:

- Flying Probe In-circuit testing (ICT)
- Systems Functional Testing
- Test Engineering Resources
- Functional Testing
- Environmental Testing
- Leak/Immersion Testing
- Custom Test Development
- Diagnostic Support
- Process Engineering Support
- Hi-Pot Testing
- EEPROM/Flash Configurations
- Design for Test (DFT)
- Yield Tracking and Feedback
- JTAG Testing Capabilities
- SPI
- AOI
- X-Ray

New Product Introduction

Typically when introducing new electronics product to market, companies are looking for quick-turn, small-run prototypes—an ACDi specialty. With dedicated NPI lines and specialized staff, we can perform design-for-manufacturability checks and quality-control flagging. Our program managers will get involved early in the NPI process to work with you to pre-order long-lead items to avoid future supply chain problems. The team will work with you to identify obsolescence issues and product sourcing alternatives.

Systems Integration

The ACDi team has the experience to fully integrate your systems and prepare them for market and will ensure a final product that meets functional requirements and quality standards.

- Configuration, kitting and custom packaging services
- Assist with sourcing options for custom packaging, product literature and manuals, UL approval and product labels
- Warehousing of raw, finished goods and custom packaging materials
- Configuration tracking
- Order fulfillment support services
- Production planning support services

Product Lifecycle Management

We offer full product lifecycle management solutions. From procurement & assembly to complete end-user order fulfillment, our Project Managers administer complete solutions for supply chain & inventory management.

We partner with your team early in the pre-production phase, providing resolution to end-of-life/obsolescence concerns as well as pre-order options to mitigate lead-time issues & prevent delays in time-to-market.

Capabilities Statement

Our Facilities:

Frederick, MD

7435 New Technology Way, Ste A
Frederick, MD 21703
301-620-0900
intouch@acdi.com

DUNS: 08-6145646

CAGE CODE: 3A2K5

- 35,000 sq. ft. plant
- 3 SMT lines
- Low-medium volume, high-mix & NPI site
- Strong manufacturing, test and process engineering support
- Flying probe, functional, environmental testing
- PCB layout services

Nashville, NC

100 Industry Ct
Nashville, NC 27856
252-462-4700
intouch@acdi.com

DUNS: 04-6673198

CAGE CODE: 6VGN0

- 50,000 sq. ft. plant
- 2 SMT lines
- Focus on mid-high volume programs
- Extensive chassis, cabling and harness level assembly capabilities

Branford, CT

33 Business Park Drive #4
Branford, CT 06405
203-488-5795
intouch@acdi.com

DUNS: 11-8200324

CAGE CODE: 979Y7

- 10,000 sq. ft. plant
- 2 SMT lines
- Mid- to low-volume programs
- Extensive chassis, cabling and harness capabilities
- Medical and UL programs
- Supports aggressive delivery requirements

Kilmarnock, VA

140 Technology Park Drive
Kilmarnock, VA 22482
804-435-0328
intouch@acdi.com

DUNS: 11-9298473

CAGE CODE: 9YEE5

- 10,000 sq. ft. plant
- 2 SMT lines
- Low-medium volume, high-mix & dedicated NPI line

NAICS: 334418, 334419, 541330,
334220, 334310, 334510,
334511, 336320, 541512,
336413

Past Performance:

- | | | |
|---------------------|-------------------------|-------------|
| ■ BlueHalo | ■ Jefferson Lab | ■ U.S. Army |
| ■ Cubic Corporation | ■ Lockheed Martin | ■ U.S. Navy |
| ■ DRS | ■ Northrop Grumman | |
| ■ Epiq | ■ Restorative Therapies | |
| ■ L3 Harris | ■ Safran | |
| ■ Honeywell | ■ TRX Systems | |

Certifications & Compliance

- AS9100D Certified
- ISO 9001:2015
- ITAR Registered
- NIST 800-171 Compliant
- SAM Registered
- ANSI/ESD S20.20-2021 Certified
- Small Business
- RoHS Compliant