

*Prime*

# Advanced EMS Solutions

**Inc.**  
**5000**





- Advanced Tier 3 EMS in Atlanta since 1989
  - Precision manufacturer of custom build-to-print PCBAs, HDI PCBAs, and electronic assemblies
  - Priorities are trust, integrity, responsiveness, time-to-market, and precision workmanship
- 
- 50,000 sq. ft. secured facility, experienced operators, four (4) SMT lines
  - Customers are Tier 1 to Tier 3 Aerospace & Defense, Avionics, Medical, Industrial, and Commercial OEMs



- Turnkey or consigned assembly of rigid & rigid-flex PCBAs
  - Precision HDI SMT lines for mission-critical electronics
  - 3D Paste Inspection, 3D Inline AOI, 100% X-Ray Inspection
  - Traceability and lot control with QR barcoding
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- System level box build, integration, coating, potting, and ruggedization
  - Prototyping to production support through End-of-Life
  - High mix, low to higher volume lot sizes, over 500,000 custom assemblies per year, over 450 different assembly types



- **Flexibility & Resolve** – We have the engineering, manufacturing, quality, and supply chain capabilities to rival Tier One EMS competitors. Our key differentiators are our financial strength, flexibility, energy and resolve to help you succeed.
- **Guaranteed Workmanship** – We offer a workmanship warranty, and invested \$2.5 million in advanced robotics technologies for precision quality and quicker time-to-market, as well as offering advancement programs and training classes to our employees that incentivize tenure and expertise.



- **Culture of Quality** – We promote a culture of quality, flexibility, organization, cleanliness, values, integrity, and a dedication to customer satisfaction.

- **Financial Stability** – We have invested heavily in the most advanced manufacturing technologies and professional staff. We have extensive working capital and capacity to fulfill the largest and most complicated orders.





- **High Density Interconnect (HDI) SMT Lines** – 3D solder paste inspection, high-speed precision Panasonic chip shooters, 13-zone convection ovens, 3D in-line AOI
- **Technology** – rigid or rigid-flex HDI PCBAs with blind and buried vias and microvias, 0.3mm BGA/FPGA, 01005s to 0201s
- **Inspection** – 100% in-line 3D AOI and X-Ray on every BGA and leadless chip
- **Operators** – IPC/J-STD trained to Class 2 and 3, IPC-A-610 certified inspectors



- **Precision SMT Lines** – 3D solder paste inspection, two (2) high-speed Siemens or Assembleon chip shooters, 13-zone convection ovens, AOI
- **Technology** – rigid and metal PCBAs, fine-pitch and standard ICs, 0402s to 1206s
- **Inspection** – 100% X-Ray on every BGA and leadless chip, batch AOI
- **Operators** – IPC/J-STD trained to Class 2 and 3, IPC-A-610 certified inspectors



- **Automated Conformal Coating** – acrylic, urethane, and silicone coating, ensures accurate viscosity and eliminates the need for costly masking

- **Box Build** – full system integration and testing of PCBAs, cables, harnesses, and sub-assemblies
- **PCBA Ruggedization** – selective solder, underfill, staking, potting





- **Design Engineering** – Prime offers Design for Manufacturability (DFM) review, and Design for Testing (DFT)
- **Process Engineering** – Prime reviews gerber and CAD data, and evaluates aperture volumes for stencil designs, programs and balances SMT lines
- **Testing** – dedicated testing team for analog, digital, RF, or power applications, including HP 3070 in-circuit testing (ICT), bed of nails, boundary scan, and JTAG



- **Traceability and Lot Control** – every PCBA has its own QR barcode for tracking reels and materials back to specific suppliers
- **Counterfeit Parts** – detection per IDEA-STD-1010

- **RMA**s – two week repair metric for workmanship issues per IPC 7711
- **ESD** – compliant to ANSI/ESD S20.20-2014



**Prime**

# Certifications & Codes



## Certifications

ISO 9001:2015

AS9100 Rev D

ISO 13485:2016

IPC-A-610

J-STD-001

ITAR Registered

JCP DD 2345 Certification #0059346

PPAP

## Codes

Cage Code: 48QT6

NAICS: 334418

SIC: 3571, 3679

DUNS: 620494682



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# Thank You!



**We appreciate the opportunity to earn your trust and business!**

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