

# SYSTEM INTEGRATION

*“We are data driven,  
transparent and collaborative.”*

– Nicole Russo, Microboard President and CEO

Microboard is an electronics manufacturing services provider delivering circuit card assembly, system integration, and test services.

## IDEAL MANUFACTURING PARTNER

Over the past four decades, Microboard has partnered with customers to bring ideas to market by recognizing that the quality of our customer’s products is their brand. We begin by understanding your goals, and with transparent communication we become an extension of your team. We believe that the foundation of trust is built on execution, results, and continuous improvement.

## SYSTEM INTEGRATION

Microboard’s engineers leverage their wealth of experience across a wide range of products and market segments to solve complex technical challenges. With dedicated manufacturing cells for each product, we develop processes that support multiple configurations and fluctuating demand in a high mix, low to medium volume environment.

## SUPPLY CHAIN

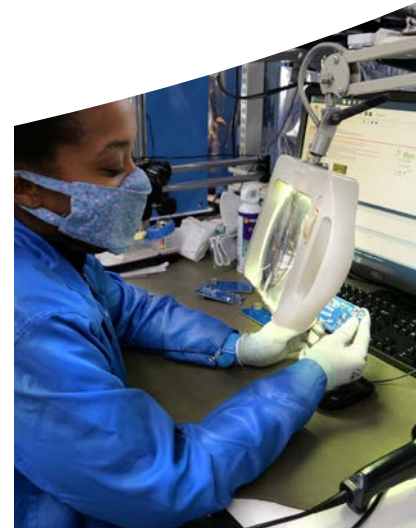
Microboard designs customer specific supply chain solutions that ensure conformance to specifications and deliver the lean-in flexibility your operation can leverage. We source through qualified supply chain partners and develop supplier controls for all commodities. Our recommendations minimize risk, reduce cost, and accelerate product launch.

## CONTINUOUS IMPROVEMENT

Microboard executes within an effective quality management system designed to meet the requirements of the industries we serve. Combined with a process focused approach, we are committed to a zero-defect culture based on continuous improvement. Our integrated manufacturing execution software and state-of-the-art systems optimize quality and productivity while supporting data driven analysis.

## ELECTRONICS MANUFACTURING

From simple designs to complex systems, Microboard provides complete solutions beginning with new product introduction to manufacturing and fulfillment. Our tailored and flexible manufacturing services include collaboration at every stage of the product lifecycle, enabling a seamless transition from concept to full production. Our highly experienced engineers seek to fully understand your needs from sourcing through process development. This mitigates your risk through optimized manufacturability, complete traceability, and reliable on time delivery.



# SYSTEM INTEGRATION

## PCBA CAPABILITIES

- PCBA, System Integration, HLA, and Test
- Best-in-Class SMT, Inspection, and Test Equipment
- Customized Process Solutions
- NPI to Production Volumes
- High Mix, High Part Count, Mid to High Complexity Assemblies
- Small to Large Form Factor Flex and Rigid-Flex Assembly

## QUALITY, MANUFACTURABILITY, AND COMPLIANCE

- ISO13485, ISO9001, ISO14001, AS9100D
- 21 CFR Part 820 Compliant QMS
- IPC-A-610, J-STD-001, IPC-7711-7721
- DFM, DFA, and DFT Capabilities
- Integrated Production Quality Data Capture
- Full Component and Date Code Traceability
- Manufacturing Execution Software Workflow Traceability
- Established Continuous Improvement Processes

## PRODUCTION AND PROCESS CONTROLS

- Control Plans
- Line Audits
- Process Validation
- First Article Inspections
- Electronic Travelers

## BOX BUILD CAPABILITIES

- Mechanical Assembly
- PCBA and Enclosure Integration
- Cable and Wire Harness Integration
- Custom System Level Test and Configuration
- Fiber Optics
- Ultrasonic Welding
- High Voltage
- Custom Tooling and Fixtures
- Packaging and Labeling

## MANUFACTURING OPERATIONS

- Dedicated Integration Team
- Flexible Work Cells
- Technicians with Wide Range of Skills and Experience
- Extensive Portfolio of Equipment and Instruments

## SUPPLY CHAIN SOLUTIONS

- Build to Forecast
- Pull Based Models
- Direct Fulfillment
- Warranty Services

## SYSTEM TEST

- Secure, Remote Access Data Collection and Reporting
- Broad Test Capabilities Including RF
- ESS Chambers
- In Process and Final Test

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