

# Advanced Rapid Prototyping Services

- Rapid Printed Circuit Board Fabrication & Assembly
- Advanced Manufacturing Solutions
- Design Support Services
- Value Engineering Services (DFX)

VEXOS  VELOCITY  
RAPID PROTOTYPING

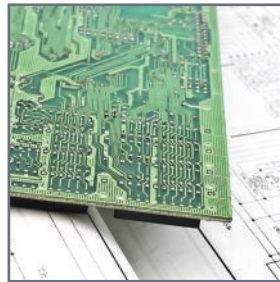
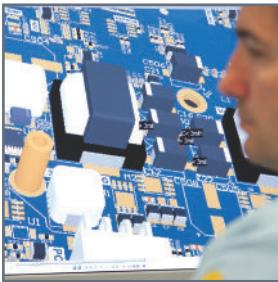


VEXOS  
Local Service. Global Capabilities.

## ADVANCED RAPID PROTOTYPING SERVICES SEAMLESS PROTOTYPE TO VOLUME SOLUTIONS

**VEXOS VELOCITY** - is a full-solution, rapid prototyping service available to our global customers. Vexos Velocity adds competitive value to customers by providing complete prototyping, design support, value engineering services (DFx), build and testing services all offered under Vexos, resulting in unmatched speed-to market support with reduced go-to-market risk.

- **ELECTRICAL DESIGN SERVICES** - with an Eco-system of Partners (ID | Reliability | Test)
- **RAPID PCB & PCBA PROTOTYPE**
- **FULL SUITE OF VALUE ENGINEERING SERVICES (DFX)**
- **INTEGRATED & COORDINATED TECHNOLOGY & COMPONENTS SOLUTIONS**
- **RAPID PROTOTYPE, NPI, REGIONAL PRODUCTION & GLOBAL MANUFACTURING**



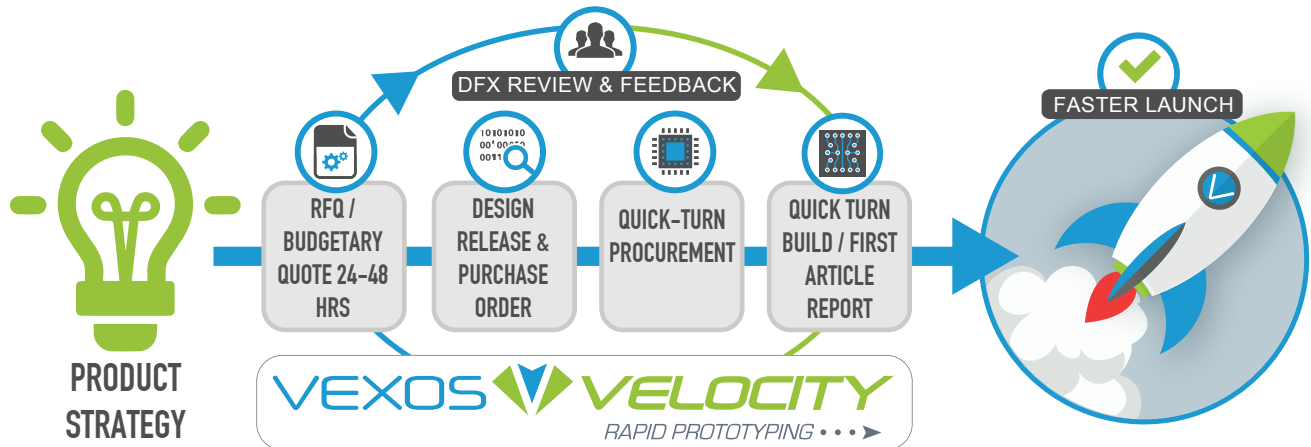
### ADVANCED MANUFACTURING SOLUTIONS

We have over 30 years of experience building highly complex assemblies...fast. The trademark of our business is our structured “**Flexibility**” launch processes which allows us to manage your project according to ISO standards while dynamically providing the necessary feedback to your Engineers that will validate, cost reduce and simplify future production of your design. **Our Prototype Assembly Process Provides:**

- Utilizing the latest equipment such as high-end flex placement machines, the highest quality optical inspection equipment, gold series paste printing cameras, and the latest in selective soldering machines.
- Process controls from component kit check-in to final inspection methods.
- Highest level of technical service, from the time you send us your files through the delivery of your finished assemblies
- Effective communication and project management throughout your entire project with Vexos and our Rapid Proto Team
- Focus on Quality and On-Time Delivery
- Quote Delivery: 24-48 hours Upon Completion of Information
- Product Delivery: 5 – 15 day Assembly Offerings
- Full DFx Review on the Front End of Your Project

OUR STANDARD BUILD TIMES
• PROTOTYPE: 5 - 15 DAYS
• NPI: 10 – 15 DAYS
• LOW-TO-MEDIUM COMPLEXITY
• VOLUMES/PRODUCTION: 2-3 WEEKS

## RAPID PROTOTYPING PROCESS



### VEXOS VELOCITY DELIVERABLES

- 24-48 HR TURN ON BUDGETARY OR PRELIMINARY DESIGN/BOM
- 5 - 15 DAY DELIVERY UPON FINAL DESIGN/ PO RELEASE
- **DFX ANALYSES PERFORMED IN PARALLEL WITH RAPID PROTOTYPING**
- **NPI AND/OR PRODUCTION PLANNING IF REQUESTED**

### VEXOS VELOCITY BENEFITS

- **FULL DFX FEEDBACK**
  - **DFM, DFA, DFF, DFSC FEEDBACK**
- ACCELERATED NPI PROCESS
- ACCELERATED PRODUCTIZATION PROCESS
- SUPPLY CHAIN STRATEGY
- DFT STRATEGY
- FASTER TIME TO MARKET
- SEAMLESS / TRANSPARENT TRANSITION FROM CONCEPT TO PRODUCTION

## BUILDING PRODUCTS FOR SUCCESS

### DESIGN SERVICES - PROTOTYPING SUPPORT

If you need assistance with design schematics VEXOS can help you with this critical first step. Our expert consulting Design Engineers (available based on your project's requirements) will collaborate with your Engineers to create schematics and PCB layouts (including Gerber files and BOM) to your specifications — incorporating DFM/DFA/DFT principles throughout the process.

### ENGINEERING SERVICES - VALUE ENGINEERING (DFX) & FEEDBACK

With over 25 years of electronic manufacturing experience, VEXOS is acutely aware of the impact a well-designed PCBA can have on the near- and long-term costs associated with the building and testing of your PCBA as well as your final product's speed to market. Our Design for Excellence (DFx) review process provides DFSC/DFF/DFA/DFT/DFM improvement recommendations to your Engineering team throughout the entire "concept to completion" process.

### PRE-BUILD

- Perform a forensic BOM review analysis which focuses on material sourcing, AML, compliance, supply and life-cycle as part of the Design for Supply Chain (DFSC) process
- Improved PCB yield and cost with Design for Fabrication (DFF) reviews
- Improved Assembly yield and reduced labor content with Design for Assembly (DFA)
- Improved Coverage and Final yield, reduced RMA and field failures with Design for Test (DFT)
- Reduced engineering development and resources, improved time to market (Test Development)
- Improved Production Stability and Predictability with Design for Manufacturability (DFM)

### POST BUILD

- Continuous Improvement (Post-DFM, ROI)

## Dependable Quality

Vexos achieves the highest quality levels by utilizing the latest equipment, processes, quality standards and certifications across the organization; to enable a flawless launch of each individual program.

- Rigorous selection of sub-contractors or partner factories
- Performance evaluation and monitoring through regular audits of the factories
- Continuous training for personnel at all levels
- Document control to safeguard your data and release of technical documents
- Sample approval process including production part approval process (PPAP)

## Certifications

- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- FDA registered
- UL Certified ZPVI2
- AS9100D:2016
- FDA QSR 21 CFR 820 Compliant
- OHSAS 18001:2007
- RoHS and Non-RoHS
- IATF 16949:2016
- CGP certification
- ITAR Compliant
- KGMP Certified

## Markets We Serve



COMMUNICATIONS



INDUSTRIAL



MEDICAL



SMART GRID



SECURITY



AUTOMOTIVE



COMPUTING



AVIATION  
DEFENSE SPACE



HVAC

## Locations

### USA

**LAGRANGE, OHIO, USA**  
MANUFACTURING FACILITY  
110 Commerce Drive  
LaGrange, OH 44050, USA  
+1 440-284-2500

**VANCOUVER, WASHINGTON, USA**  
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### MEXICO

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### WINNER OF CIRCUITS ASSEMBLY'S AWARDS

