

## **Manufacturing, Engineering, Design, and Testing**

We specialize in the design and development of military custom engineered electronics, electrical systems, controls and energy systems. Engineering and design services are available for all phases of commercial and industrial electronic, electrical and energy generation product development. These services include:

- Conceptualization and Product Specification
- Analog Circuit Design & Engineering
- Digital Circuit Design & Engineering
- Embedded Systems Design
- Firmware / Software Development
- Systems Integration
- Packaging Design
- Design Verification Testing
- RF Design and Engineering
- Telemetry
- Power Product Design and Engineering

## **Testing and Quality Assurance**

Milectro's Testing and Quality Assurance Team will inspect your project's elements throughout all phases of development and production. Our inspection laboratory is equipped with calibrated instruments to insure product quality. We offer:

- First Article Inspection
- Statistical Process Control
- High Magnification Inspection
- Variable & Attribute Testing
- Incoming/In-process/Final Product Testing
- Product Testing
- Calibration & Alignment
- Functional Test Fixture Design
- Automatic Test Set Design
- Test Procedures / Programs
- Manual Procedures
- Fault Detection Analysis
- Firmware Loading & Verification
- In-Circuit Functional Data Analysis
- First Pass Yield
- Serial Number Tracking
- Data Logging
- Repair Service
- Engineering Change Upgrades

Milectro offers complete engineering, manufacturing and assembly services. From simple projects to complete turnkey products, Milectro provides a full range of electronic and electromechanical manufacturing and assembly services. These services include product design, value engineering, manufacturing, and worldwide shipping capabilities. We would appreciate the opportunity to discuss and quote your current and future requirements.

## **Prototyping and Beta Production**

Milectro can manufacture any electronic or electromechanical technology in commercial and industrial use today. With our continuous process improvement, we can offer ever increasing value added services to our customers. Milectro offer Rapid Prototyping of multi layer boards from the point of bare PCB fabrication through final assembly in only 3 to 7 days.

Nobody can match our speed and full turn-key capability. We offer basic design concept to final product delivery. From CAD system files to assembled boards in 3 to 5 business days CAM software interface from most CAD system files to Milectro' manufacturing systems 24-Hour multi-layer, double-sided and single-sided printed circuit boards.

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## **Custom Manufacturing**

Milectro develops an optimized assembly procedure with detailed process flow for each product. This saves time and money while providing a roadmap for future production. We reduce your expenses and streamline operations by using our electrical, mechanical, and development expertise, from basic design concept through final product delivery.

Milectro offers truly one stop shopping. We offer:

- Schematic capture
- Printed circuit board layout
- Solids modeling
- Hardware and software design and development
- Circuit simulation
- ASIC and EPLD
- CNC and Metal Forming shops
- Coating and Anodizing
- Engineering support of DFM
- Prototype boards meet the same standards as production boards
- Custom Packaging

Milectro can expedite your project by offering:

- Custom turn-key design
- Packaging of buss instruments
- Custom interface software
- Build-to-print (with or without packaging assistance)
- Burn-in and run-in fixtures

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## **Custom Power Electronics**

Milectro is a global supplier of power conversion products to the renewable energy, communications, and industrial markets. Milectro designs and manufactures DC-DC converters, DC-AC inverters, frequency and phase converters, AC stabilizers, and MPPT power supplies.

Milectro specializes in providing reliable custom designed DC-DC converters, DC-AC inverters AC-AC converters, and AC-DC power supplies. Our company is expert in the design and manufacture of power conversion devices custom engineered to specific requirements. We place a great deal of emphasis on reliability, rapid prototyping and adherence to cost targets.