

## Electronics, Innovation, and Solutions

Microlynx Systems Ltd provides electronics product design services.

With **over 25 years in the business**, Microlynx has helped hundreds of customers **across Canada and the United States** develop innovative products such as wireless modems, low-power hand-held devices, encryption / authentication devices, protocol converters, and industrial control systems.



**Gain instant access to our design experience** and capabilities when you bring your project to us:

- System design and specification
- RF, analog, and digital design
- Schematic capture, PCB layout
- FPGA development, VHDL
- Firmware and embedded system development
- Prototype testing
- Test jigs and test fixtures
- Compliance testing assistance

## Service Offerings

- **Electronics Product Development:** from concept through to production
- **In-Circuit Test Fixtures:** reduce test time and improve quality with bed-of-nails type test fixtures
- **Design Services:** technology assessments and reviews; perform design reviews on existing products; assist with troubleshooting design problems
- **Obsolescence Management:** assist with conversions driven by lead-free requirements or part obsolescence

## Why Outsource?

Here are some reasons why **you should consider Microlynx** for your next project:

- **Experience** – our team of engineers, technologists, and technicians have completed hundreds of projects.
- **Creativity** – We often find unique solutions to give you an advantage over your competition.
- **Quality** – We have a proven track record of designing reliable products that usually pass regulatory testing first time.
- **Time to market** – we stand ready to start your project, and our design processes allow us to complete your projects quickly.
- **Flexible business model** – fixed-price, time-and-materials or first-article-plus-per-unit pricing.
- **Supply chain relationships** – fast access to samples, inventory, design tools, and field applications support.

## Affiliations

Microlynx has developer status with the following vendors:

### *Altera*

Microlynx is the only ACAP design partner in Western Canada. Altera programmable solutions enable system and semiconductor companies to rapidly and cost-effectively innovate, differentiate and win in their markets.



### *Cymbet*

Cymbet is the leader in solid state energy storage and energy harvesting power management solutions, providing eco-friendly solid state battery devices for many applications.



### *Digi*

Digi's products provide an economical and robust way to add 802.3 or 802.11 capabilities to any project. Their modules are based on 32-bit ARM processors coupled with sizeable amounts of RAM and FLASH. A full TCP/IP stack and real time operating system is included.



### *Microchip*

Microchip's product line includes the incredibly versatile PICmicro® microcontroller family. These versatile and highly integrated devices are ideally suited for low-cost and low-power applications.



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## Some Past Projects

### **Security**

*Wireless Digital Video Transmitter and Receiver* – battery-operated credit-card sized transmitter with capabilities that included video compression, encryption, and forward error correction.

*Wireless Alarm Panel* – Residential alarm panel with integrated licensed UHF data radio, along with matching Receiver.

### **Avionics**

*Supplementary Aircraft Data Logger* – DO160 compliant data logger used in commercial aircraft such as 737 and A320. Direct interface to aircraft data busses, high capacity non-volatile event memory, and real-time communications via satellite modem.

### **Oil and Gas**

*Down-Hole Measurement System* – Low power, high sensitivity analog to digital converter designed to meet down-hole environmental conditions.

*Exploration Gas Analyzer* – Temperature compensated infrared analyzer used to provide real-time gas analysis during exploration drilling.

*Seismic Wireless Communications System* – High performance, high speed, long range communication system in the licensed VHF band.

### **Vehicle Control and Fleet Management**

*Vehicle Battery and Impact Monitor* – radio-based system capable of monitoring the activity, status, and battery condition for warehouse vehicles.

*RV Lighting Control* – high efficiency distributed dimmer system using CANbus

## Call Us Now To Discuss Your Project

Microlynx Systems Ltd  
Suite 107, 1925 – 18 Ave NE  
Calgary, AB T2E 7T8

Tel: (403) 275-7346 / (866) 835-4332

Fax: (403) 275-9501

[www.microlynxsystems.com](http://www.microlynxsystems.com)