

Mars International is a supplier to the Wireless Controls industry providing custom electrical and mechanical assemblies and final products. Services include electrical and mechanical design, embedded software development, manufacturing engineering, and product delivery management.

Mars International designs and manufactures wireless sensors and controls for many applications including products for home and building automation systems, intelligent lighting and energy management, access control, elevator & escalator safety, healthcare and fitness, security, and more. Mars International has designed, manufactured, and delivered millions of transmitters and receivers to the field to date.

### Product Applications

Mars International is well positioned to support the needs of the wide variety of wireless products. Key manufacturing and development capabilities provide the infrastructure and the service to benefit the following product solutions and more.

#### Home Automation

- Lighting controls
- Temperature sensing and control
- Humidity and moisture sensing
- Appliance monitoring and control
- Wireless remotes

#### Commercial / Industrial Building Automation

- Equipment monitoring
- Humidity, moisture, temp, pressure monitoring
- Energy monitoring and control
- RFID scanners

#### Safety and Security

- Door and gate controllers
- Marine controls
- Theft protection devices
- Motion detectors
- Occupancy / vacancy sensors
- Wireless keypads

#### Medical Devices

- Wearable wireless sensors
  - Glucose, heart rate, blood pressure, sleep/activity
- RFID tagging and tracking

#### Key Manufacturing Capabilities

- Total product assembly
- Printed circuit board assembly
- Molded plastics – enclosures, buttons, switches, etc.
- Precision metals – casings, machined parts, etc.
- Electro-mechanical assembly

#### Key Development Capabilities

- Mixed signal design
- Printed circuit board layout
  - Optimum RF performance
- Optimized embedded software
- Tooling design and construction
- Molding simulation
- Test procedure definition
- UL and FCC pre-qualification

#### Key Technologies

- $\mu$ Processors /  $\mu$ Controllers
- Transmitter / Receiver technology
  - LC, Saw, Crystal, Superregen
- RF and IR communications
  - Z-Wave, Zigbee, WiFi (802.x)

Wireless boat lift control



Wireless receiver



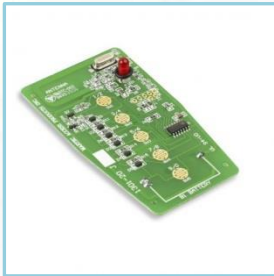
Garage door safety beam



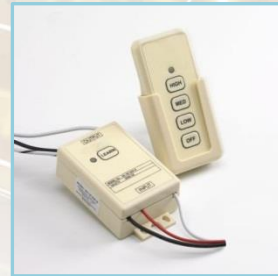
Wireless wall switch



Wireless antenna board



Fluorescent lighting dimmer



Wireless keychain remote



Z-wave home automation gateway

