

Products & Solutions



Elevate Performance with Expert Control

Evolution Motion Solutions is a leader in systems integration with the knowledge and expertise to deliver advanced custom control solutions for mobile/off-highway applications. With over 80 years of experience designing and engineering systems, we have positioned ourselves on the leading edge of technology, providing its customers with reliable, scalable, and customized solutions.

We provide plug-and-play solutions customized to fit any mobile application need, from radio controls and relay logic to complex CAN Bus systems, SAE J1939-based controls, and wireless data communication networks.

Mobile Controls partners with Customers to Provide Custom, Flexible, and Scalable Control Solutions.

- Custom Engineering
- Knowledgeable Tech Support
- In-house Prototyping
- In-house Repair
- Rugged & Durable Designs
- Serviceable Products
- Systems Integration
- Designed & Manufactured in Michigan



LDC J1939 Controller

The Digital Controller (LDC) is a cost-effective, customizable solution for OEM applications. This IP67 machine controller provides substantial I/O and multifunction display for flexibility when monitoring J1939 parameters or controlling hydraulic valves and engine operations. Application possibilities include machine control, J1939 engine traffic monitoring, and tier 4 final engine control.



LXL Series

The LXL series transmitter is a traditional belly box with IP67 environmental protection. It's lightweight and ergonomic, featuring 36 channels, 16 analog functions, and space for joysticks, toggles, and pushbuttons. The LXL is the best choice for complex machine control applications with a 2.7" sunlight-readable display, 15-hour battery life, and 900 MHz or 2.4 GHz configurations.



LXT Series

The fleX Transmitter (LXT) offers extensive functionality in a compact, lightweight design ideal for all day use. The rugged IP67 construction includes a customizable sunlight-readable LCD with a rotary encoder for menu navigation. The switch layout can be custom configured with joysticks, toggles, pushbuttons, or keypads.



LXH Series

The LXH series transmitter is a single-handed remote best suited for stationary machine control applications, such as crane control, pump systems, construction equipment, and boom trucks. This controller features a configurable sunlight-readable display, a 12-button membrane keypad, up to 22 functions, and two-step button functionality with haptic feedback.



PDC-X Series

The PDC-X digital tachometer/hour meter is a programmable IP68 protected gauged that offers RPM-based control for gas or industrial diesel engines using two 7.5 amp mosfet outputs. The PDC-X can read and display J1939 parameters directly from the engine with LED feedback, making it ideal for auto-feed applications, including chippers, rock crushers, and conveyors.



PDM Series

Patented Power Distribution Modules (PDMs) are built for industrial engines, featuring field serviceable fuses, a circuit board designed for repeatable production, and a single connection point to the customer control panel. PDMs can be designed with glow plugs, breather heaters, remote shutdown, breakers, start solenoids, and start circuits. All PDMs come with the required harnessing.



LXM

The LXM J1939 Control Module can function as a standalone controller, or it can be controlled by any CAN Bus master module. It features bi-color LED feedback for in-field diagnostics and troubleshooting. With 18 configurable inputs and outputs, the LXM can meet the requirements of many applications.



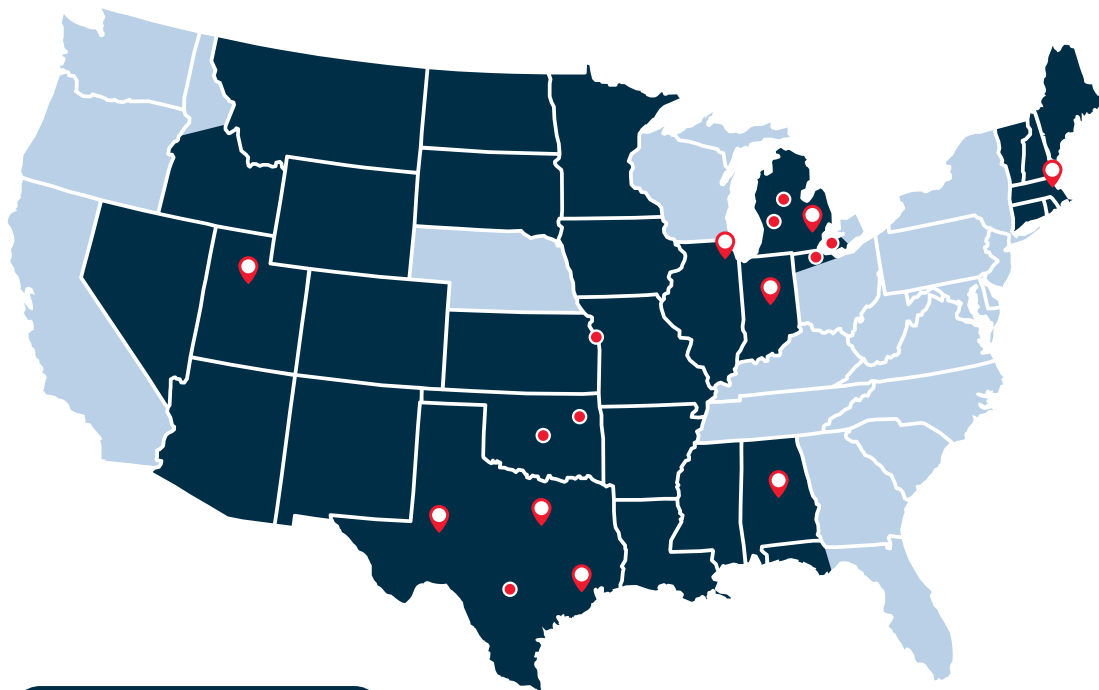
Futaba FRN-0602U

The Futaba FRN-0602U is an economic 6-channel radio remote system encased in a high-impact, water-resistant case. The FRN maintains worldwide compatibility, exceptional range, and excellent signal security with 20 PLL synthesized channels, 16-bit ID codes, and operations at 319 MHz. Application possibilities include conveyors, hoppers, stop light systems, construction machinery, and tub grinders.



LXR

The LXR Series Receiver can be programmed to fit any application with its internal processing capabilities. It features LED feedback, a two-wire J1939 CAN connection, and an integrated magnetic charging station for LX Series transmitters.



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