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# Transportation

Electronic Motion & Controls Division



ENGINEERING YOUR SUCCESS.

# Electronic controls and solutions for transportation

Parker – an experienced partner at your service

## Market Knowledge and Solutions

Parker Electronic Motion & Controls Division commitment to the transportation market is clearly demonstrated by the products, the solutions, and the customer service provided. Parker EMC has successfully integrated products that address the needs of truck, bus and rail manufacturers for many years. We offer innovative solutions for operator displays, and CAN based control systems that increase productivity and optimize fuel consumption.

## Value in Use

Parker has dedicated teams of specialists working globally to design systems, sub-systems and solutions to meet the most demanding requirements. Among the many immediate value adding benefits realized are; increased productivity, reduced production time, reduced fuel consumption and emissions, and reduced down time.

## Certified Electronics

Parker offers comprehensive control systems specifically designed for the mobile industry, fulfilling the latest standards for safety and environmental protection. User-friendly application software tools are used to build up the complete system. The modules communicate via CAN bus, allowing different gateways to other systems. All of Parker's extensive knowledge and experience in motion control on mobile units is built in, providing optimum control and flexibility as well as on-board and remote diagnostics capabilities.

The CM3033 controller module for mobile vehicle applications has flexible I/O and 10A output capabilities. CM3033 is programmed in Parker PEDS (CODESYS based)/MATLAB/C. Communication via SAE J1939 protocol over CAN bus. Ethernet diagnostic support.



Parker's CM0410 controller module is a compact J1939 slave unit that features configurable I/O using a supplied PC tool.



The CM0410 module reports input status and receives output commands from a master using J1939 protocol over a CAN bus connection.



-image courtesy of Otokar

Proximity and tilt sensors provide feedback on doors, hoods and access panels. Speed sensors monitor fan speed, aux. generator speed or other shaft speeds.



DPS70 instrument cluster has a 7" full color touchscreen display for an improved operator interface. The color touchscreen provides status of the cameras, engine and vehicle systems with better diagnostics, including graphics and text messages. There can be up to 4 gages and 26 status LEDs.



# System Solutions

The bus remains the central piece of transportation infrastructure around the world; as a shuttle, urban mass transport or cross country coach. Parker EMC systems can meet all of the requirements of modern transportation vehicles - like buses - and their functions, and capabilities, while providing the operator with comfort and ease of operation.

-image courtesy of Grant's Bus



A CM multiplexed control system offers full chassis control, providing the benefits of reduced wiring and improved diagnostics. Implementation of optional functions like kneeling or ramps is easily accomplished. The DPS70 instrument cluster has traditional dial gauges for a clean familiar operator interface, along with a configurable, full color touchscreen-capable display for improved system feedback and operator interaction

## Features

- Customizable operator HMI
- Color touchscreen displays
- Easy serviceability with plug & play option
- Decreased wiring harness complexity
- Proven product and quality performance
- Logged vehicle data and online monitoring capability
- Sensors specialized for transportation

The Electronic Motion & Controls Division offers individual components and system solutions for transportation and bus electronic controls, using state of the art technology and global experience with transportation applications.

# Engineering Your Success

With intelligent and innovative solutions.



Whether for off-highway equipment or over the road truck and bus applications, Parker's Electronic Motion & Controls Division offers full system solutions and products to fit your needs. With worldwide engineering and manufacturing capabilities, the Electronic Controls Division has the experience, skills, and capabilities to provide solutions for virtually any mobile electronic application.

If you would like to discuss your mobile electronics applications, and how Parker's Electronic Motion & Controls Division can offer you a competitive advantage, please feel free to contact us.

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Parker Hannifin Corporation  
**Electronic Motion & Controls Division**  
850 Arthur Avenue  
Elk Grove Village, IL 60007 USA  
phone 800 221 9257  
[www.parker.com/emc](http://www.parker.com/emc)

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