

# DynaSync<sup>™</sup> Drive-By-Wire

## For Control of Autonomous Platforms

Complete Industrial-grade hardware and software solution for autonomous vehicle control

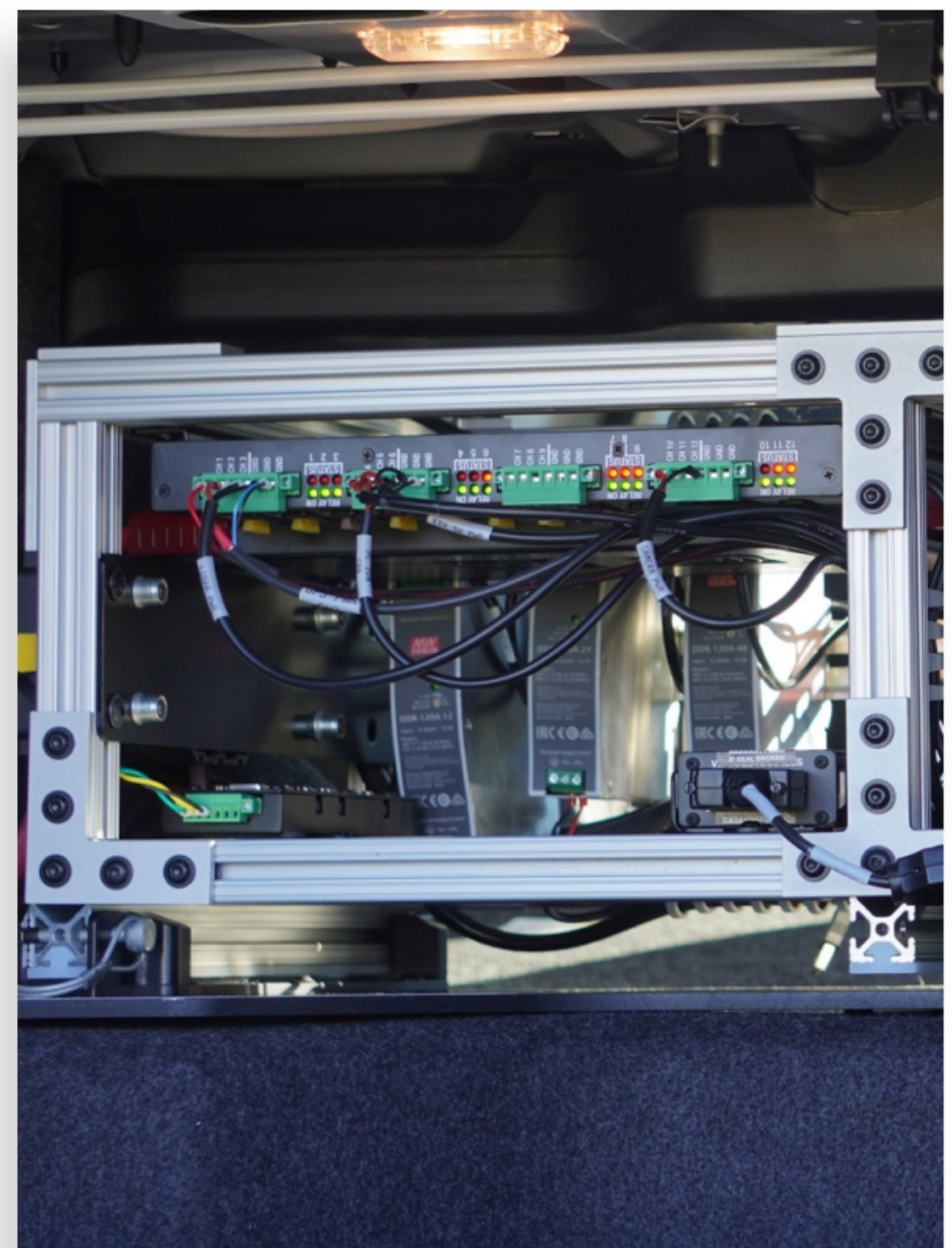
- Enables seamless electronic control of the brake, throttle, steering, and shifting
- Integrates with the vehicle's existing control system and CAN bus messaging
- Preserves all factory safety features
- Can be installed in a few days to accelerate testing and development
- Allows Engineers to quickly focus on algorithms, sensors, and data research

## Software That Powers the Platform

- Embedded Drive-by-Wire Kit Firmware
- Full-range Speed Control
- Automatic Shifting
- Natural Set Speed Transitioning
- Kinetic Yaw Rate and Curvature Control
- Configurable Dynamics Limits
- Independent Subsystem Disabling
- Versatile Integration with Other Controllers

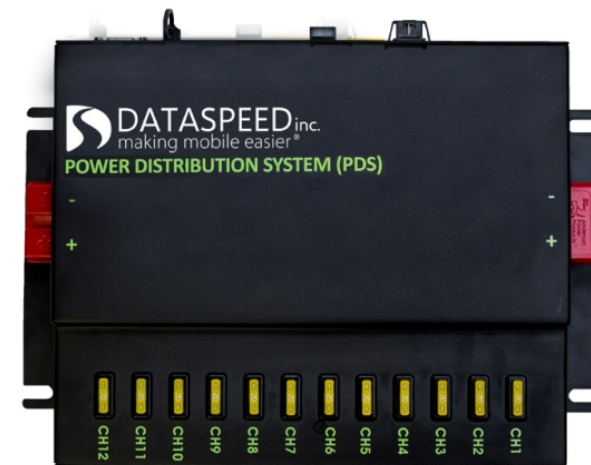
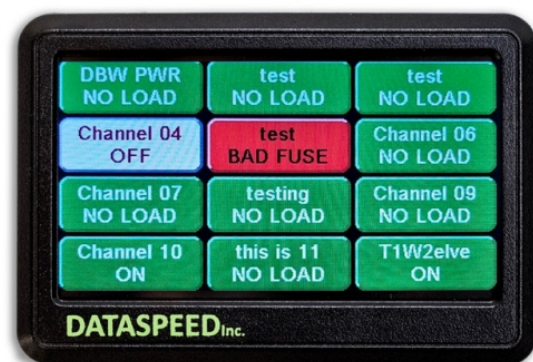
## Integrated Hardware Components

- Brake, throttle, steer, and shift by-wire controller modules
- CAN interface module with 4 networks up to 1Mbps each and configurable bit rates
- CAN breakout module enabling up to five additional nodes (additional available for further expansion)
- Intelligent Power Distribution System (iPDS) with 12 Channels
- Touchscreen Display Kit for iPDS
- Inverter module (if required based on geographic location)
- Discrete wiring harness with positive locking mechanisms on every connector
- E-Stop Button
- Installation Baseplate and Mounting Rack (if applicable to vehicle platform)
- Demonstration Pack including joystick controller and carrying bag



## Maintenance & Support

- One year By-Wire Maintenance Subscription is included, covering hardware replacement and firmware updates
- Drive-By-Wire hardware, including ECUs and components, replaced if defects are identified. Excludes tampered units.
- Telephone and email support provided for installation and operational issues
- Ongoing access to the latest software and firmware releases

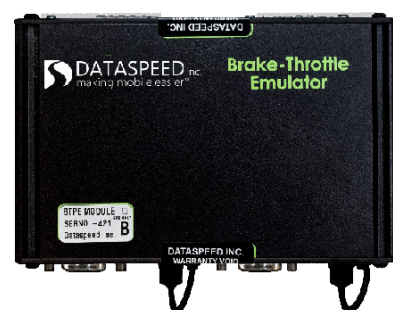


## Accelerate Autonomy with Dataspeed

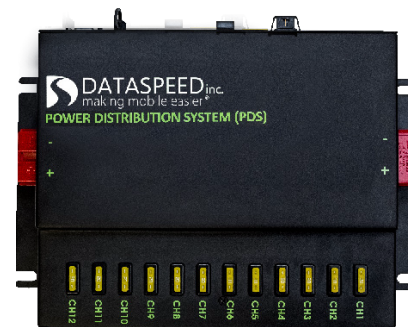
Dataspeed is the leader in autonomous vehicle development, providing autonomy-ready vehicle platforms and Drive-by-Wire systems for on-road and off-road applications across defense, automotive, industrial, and academic research. Trusted in demanding environments, Dataspeed helps teams move faster, reduce integration risk, and bring autonomy to life while helping define the standard for scalable autonomy.



Turnkey Autonomous Vehicle  
Integrations



Drive-by-Wire Kits



Intelligent Power Distribution  
Systems



Autonomous Sensors

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