Speedy and convenient:
If you’re developing an ECU for an electrified drivetrain, you can now use a preconfigured RapidPro system. dSPACE also provides optimum support for other application areas.

Compact and Vehicle-Capable
dSPACE’s modular, compact RapidPro hardware provides signal conditioning and power stages for connecting automotive sensors and actuators to dSPACE prototyping systems. The RapidPro system is perfect for use in a vehicle, on a test bench, and in a laboratory. The RapidPro modules are easy to configure and there are numerous ways to combine them, providing the high flexibility necessary for handling changing
Preconfigured yet flexible: The new configurations cover various applications and can be extended modularly.

Developing new combustion processes is much easier with the engine control configurations for combustion engines with up to 6 cylinders. With the dSPACE Simulink® I/O model, developers can connect the sensors and actuators quickly and easily.

The configurations cover current development areas in automotives:

- **Engine control configuration:** for combustion engines with up to six cylinders to develop new combustion processes, for example
- **Body electronics configuration:** for typical body electronics systems with a large number of digital inputs and outputs
- **Chassis control configuration:** for vehicle dynamics systems with connection options for typical sensors for acceleration, wheel speed, vehicle inclination, etc.
- **Transmission control configuration:** for new transmission functions with flexible power stages for valve or DC motor control
- **E-motor control configuration:** as a flexible power stage for a variety of electric motors in the prototyping phase

If a user's requirements are different from these ready-made configurations, the RapidPro system has the necessary flexibility for adaptations and extensions.

**Predefined Configurations**

RapidPro's flexibly configurable hardware now has new companions: RapidPro standard configurations tailored to specific development tasks. These include classic tasks such as developing transmission controls and new tasks for current development trends, such as drive-train electrification, and further optimization of the fuel consumption and emissions of combustion engines, to name but just a few. These predefined configurations are complete, tailored solutions that help users integrate sensors and actuators in their applications. The advantage: Developers do not need to set up and configure the system. They can concentrate completely on their core task, controller development.

**Preconfigured I/O Models**

dSPACE also offers Simulink® I/O models designed specifically for the RapidPro standard configurations. These make preconfigured I/O signals available for the sensors and actuators to be connected.