INTELLIGENT POWER DISTRIBUTION SYSTEM

Smart Power Management

The Dataspeed intelligent Power Distribution System (iPDS) is a flexible and easy-to-use solution for powering instrumentation, computers, and sensors of a test vehicle. The iPDS features 12 automotive independent DC relay channels, two long-life cooling fans, as well as internal temperature sensors for channel temperature monitoring. The on-board computer controls the power sequencing and continuously monitors each of the 12 channels, reporting its electrical current and health status. The system is designed with commonly used communication interfaces to support drive-by-wire autonomous vehicle research, advanced driver assistance systems experimentation, and any automotive electronics testing.

- 12 channels at 15A each at 12V or up to 10A each at 24V
- Manual power toggle for independent channels
- Connect four units together for 48 channels [1]
- CAN, Ethernet, and USB communication
- Selection of startup/shutdown mode (auto/manual/locked)

- Programmable startup and shutdown controlled by user-defined scripts
- Over-current detection and diagnostics
- Touchscreen Interface
- Inverter interface and control [2]
- Thermostatically controlled Active Cooling

Touchscreen Interface

- Sleek touchscreen display
- Enables channel control & status of iPDS
- Visual display of channel's amperage & mode (on/off/fault)
- Easily trigger startup or shutdown scripts
- Conveniently mounts in the vehicle cup holder

[1] Varies with use case, contact Dataspeed   [2] Select Inverters

DATASPEED inc.

making mobile easier®

Partner with Dataspeed

Dataspeed specializes in innovative autonomous vehicle (AV) research and testing platforms. Whether your company is new to the industry or is looking to expand your current fleet, our experienced team of engineers and business professionals can guide your organization in developing an action plan to meet your specific needs. We're skilled in full vehicle integration including by-wire implementation, sensor and computer installation, data acquisition, and vehicle communications. Our vehicle systems engineers have extensive experience creating custom hardware and software solutions. Contact us today to discuss how Dataspeed can accelerate your AV research and development.