

Delphi Gen2 Hybrid and EV Controller

Delphi hybrid / EV controllers are designed to provide supervisory control for hybrid and electric vehicle applications. The Gen2 HCU acts as the communication gateway between the vehicle, IC powertrain, power electronics and energy storage components. Leveraging Delphi's proven powertrain controller design, the HCU is flexible enough to be used on a wide variety of vehicle applications and across multiple architectures.

► Benefits

- Implemented using high-volume, low-cost Delphi powertrain controller building blocks as foundation
- Readily configurable controller with software to meet customer-specific functions
- Flash programming provides for in-vehicle memory updates
- Up-integrated design reduces weight and amount of wiring
- Mounting flexibility:
 - Underhood or within passenger compartment
- Experienced high-volume manufacturer
- AUTOSAR compliant

► Features

- Powerful CPU with up to 2.5M memory
- Flexible high-speed, multi-channel communication busses
 - 3 CAN interfaces
 - 1 LIN interface
 - 1 FlexRay (optional)
- Flexible input / output channels
- Waterproof housing
- Safety watchdog helps detect and manage failsafe modes

► Functionality

- Provides propulsion control of hybrid and electric vehicles, coordinating energy storage and propulsion sources
- Manages motoring and generating torque requests in response to driver inputs
- Acts as communication interface to vehicle and electric drive / battery
- Provides gateway function between communication busses

► Availability

- SOP Q4 2011



Delphi Gen2 Hybrid and EV Controller