

EFT-VCU-1x



The EFT-VCU-1x (Vehicle Control Unit) is designed as a central control unit for any (hybrid) electric powertrain. The main function is to supervise and control all the subcomponents of a powertrain (ICE/Turbine, Power Electronics, Inverter and Batteries).

Power Management	Power Management of ICE/Turbine, System Voltage Regulation, Charge Control of Battery
Smart Monitoring	Monitoring and recording of all relevant parameters and alert processing
Modularity	Simplified interfaces for modularity and ease of integration

Communication Interfaces	CAN2.0b RS-232 UART I2C SPI PWM Input/Output ADCs DACs
Sensor Input/Output	9 Temperature Thermocouple Inputs, Voltage Sensors, Current Sensors, Generic Analog I/O, Generic Digital I/O
Data Storage	SD Card with high rate data logging
Safety Functions	<ul style="list-style-type: none"> • Input filtering • Reverse polarity protection
Power Distribution	<ul style="list-style-type: none"> • Protected 12V Rail with 3 individual Outputs • Protected 5V Rail with 4 individual Outputs

Its modular power and control interface allows the EFT-VCU-1x to be integrated with ease into any (hybrid) electric powertrain system.

This platform serves as the central brain in several of our customer applications.