

Clientron, headquartered in Taiwan, is a dedicated leader in the automotive industry, specializing in system integration services. With extensive expertise in integrating subsystems to enable seamless communication between all components and applications within electric vehicles, Clientron stands at the forefront of innovation.

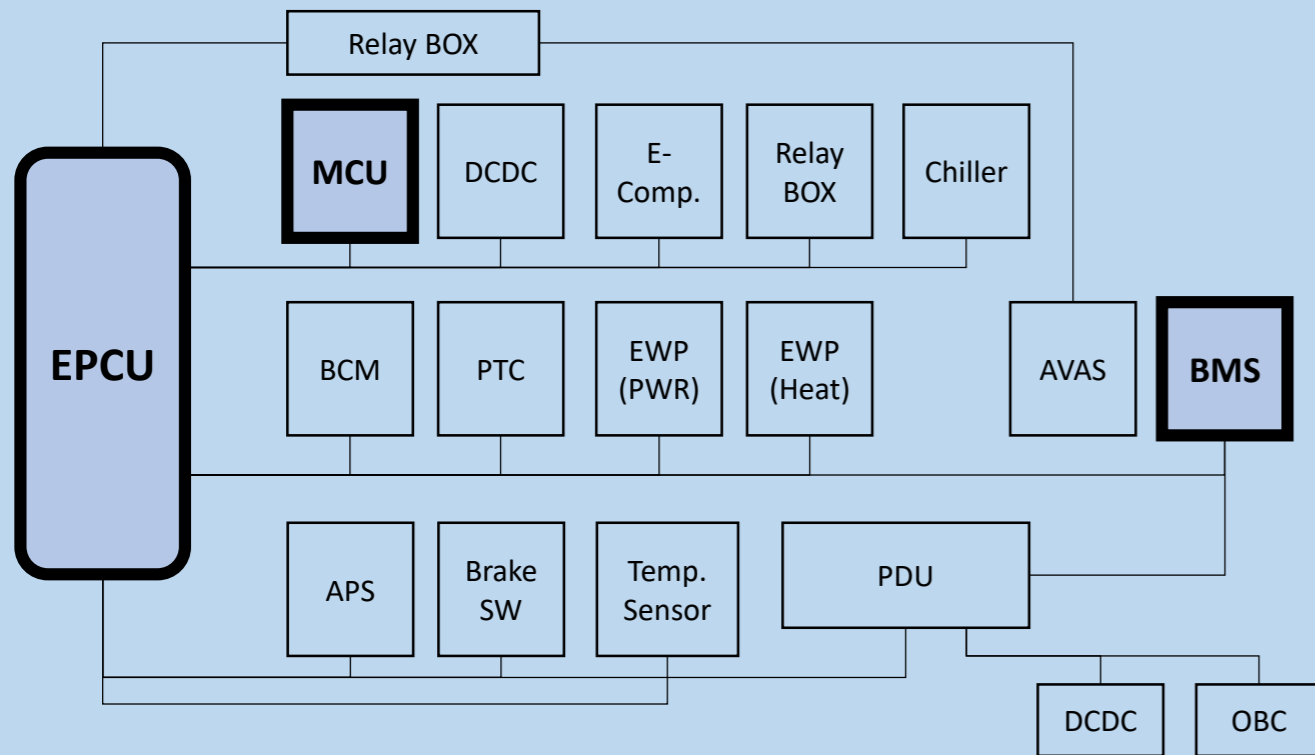
At the heart of our offerings are advanced in-vehicle infotainment systems, complemented by cutting-edge developments in Advanced Driver Assistance Systems (ADAS) and Cellular Vehicle-to-Everything (C-V2X) applications. These innovations have enabled us to support manufacturers in creating smart e-Cockpits, earning the trust and recognition of leading automakers across various regions.

At Clientron, our unwavering commitment is to be a trusted partner in delivering user-friendly, secure, reliable, and durable solutions for the automotive industry.

Electric Powertrain Integration & Solution for Unique Vehicle



Ref. EPCU System Diagram



Smart Meter Cluster System

- Support 3.5"/5"/7"/12.3"/... Sizes
- Customization or Clientron's GUI
- Using RTOS on 12V/24V system
- Support CAN Bus, PWM
- With Buzzer inside(by Model)



10.1" One Din IVI, All-in-One Sys.

- With 10.1" Touch Display, Buttons
- Using Android Auto OS and Supporting redevelopment
- Support BT/WiFi, GPS, 4G, CAN Bus, UART, and video input/output
- Support BT Hands Free(MIC inside)



E-Shifter

- E-Shifter is shifted by wire
- Apply to development of APS (Automated Parking System) and ADAS
- Support CAN Bus interface

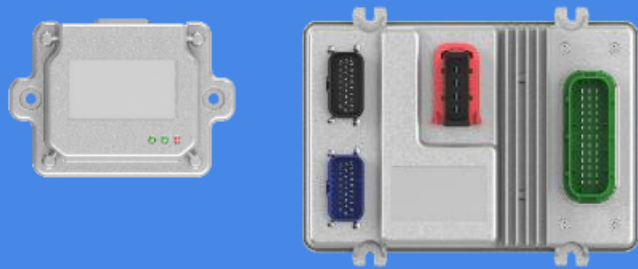


AVAS (Acoustic Vehicle Alert System)

- Support CAN Bus interface
- Comply with automotive-grade test
- Ingress Protection Rating: IP67

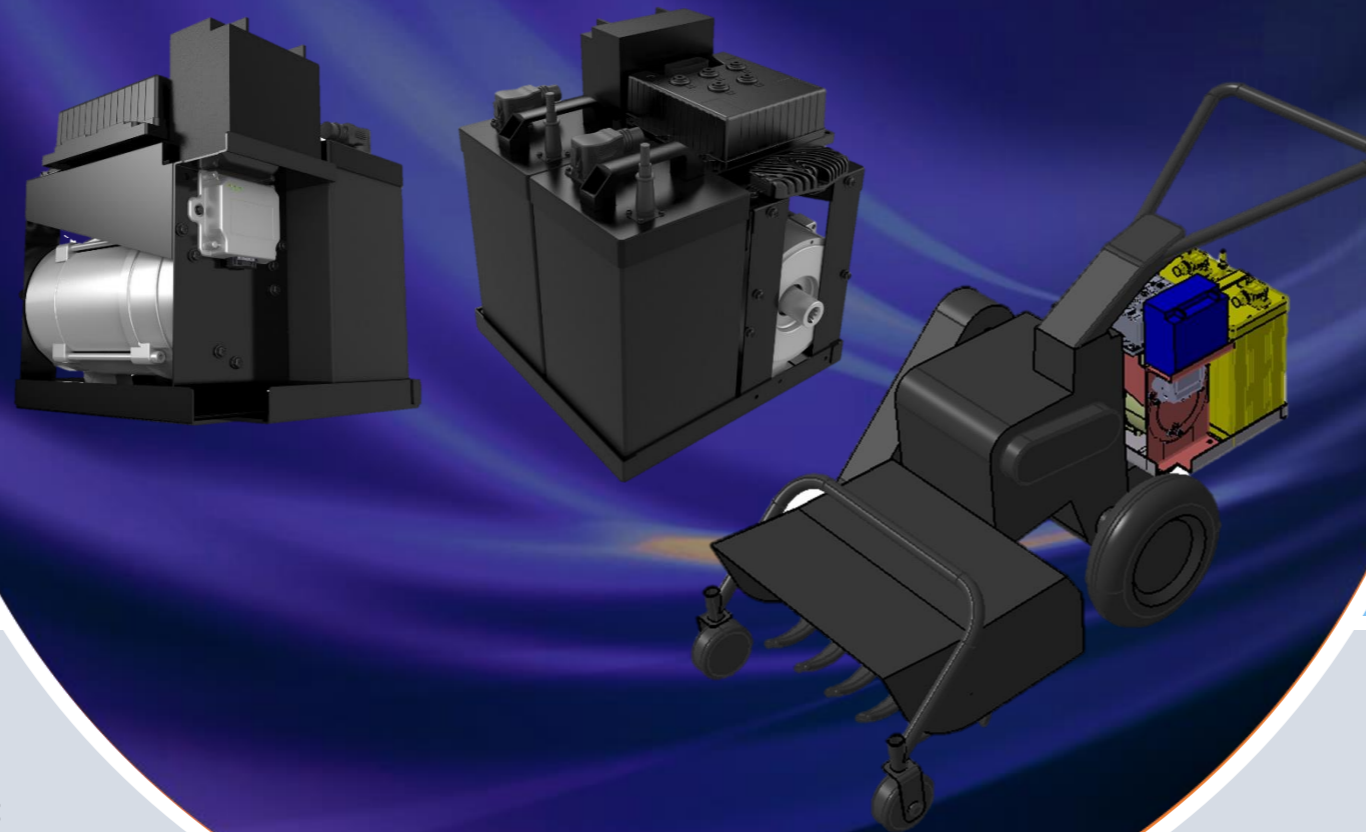


BCM (Body Control Module)

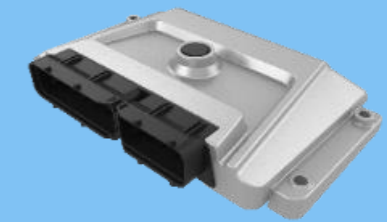


- Control the electronics system.
- Support 18V - 32V DC
- Support diagnostic and BT(OPT)
- Support 1 master with 6 Slave local CAN Bus network and redevelopment.
- Support A/D interface including :
 - CAN Bus
 - wake-up I/O: 20A/9A/3.2A/2A/etc.

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EPCU (Electric Powertrain Control Unit)

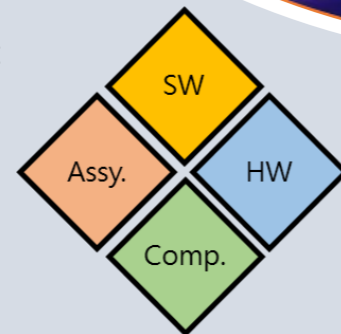


- EPCU is the Vehicle Control Unit integrating BMS (Battery Management Sys.), MCU (Motor Control Unit)
- Support A/D I/O Control
- Apply to buses, passenger vehicles, and all-terrain vehicles (ATV), etc.
- Utilizes the Model-Based Design(MBD) to implement the AI algorithm and logical structure.
- Supports redevelopment.

Integration Solution :

- Integration Electric Powertrain System including:
 - Motor/MCU, Battery/BMS, EPCU(VCU), Meter
 - Speed Sensor, Brake, DC/DC, OBC, Pump, Cooling system
 - Low/High voltage Harness Design and Layout
 - Unique Vehicle/Vintage Car/antique Car Package Layout Solution

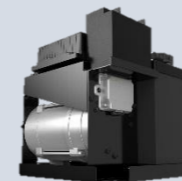
- Provide optimization Powertrain SPEC Proposal
- Provide BCM or EPCU(VCU) Software(AP) Redevelop Kit
- Provide Retrofitting ICE-Vehicle to EV Proposal.
- Show Case as right side:



Vintage Car T1-EV



URX ICE → EV



EV Kit



EV-Farm Wagon



ET-ATV (2WD/4WD)



Vintage Car Beetle-EV