

# EV/PHEV Master Control Unit

ELINTA MOTORS HCU-V6.31

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Elinta Motors HCU is designed for both pure EV and Plug-In hybrid applications. Via 4x CAN-bus it controls power-train, vehicle safety systems, 7" or 10" user interface dashboard, climate control and other vehicle equipment.

The unit has J1939 CAN-bus integration and is compatible with various fleet management solutions for telemetry data logging.

- 100% Electric vehicles
- Plug-in Hybrid vehicles
- Heavy Machinery
- Custom applications

## Key Features



- 4 x CAN-bus, up to 1Mbps
- 18 x inputs
- 17 x outputs
- Dual STM 32 processors
- IP6k9k protection
- IEC 62196 charging protocol
- 7" - 10" User interface modules
- Smart diagnostics
- CAN-USB programming
- Climate control
- Vehicle safety: ABS, VSC, ASR, LDWS.

## Power

Dimensions  
205 x 140 x 38 mm

- Typical working voltage: 12 V to 24 V
- Minimum voltage: 8 V
- Normal operation current: > 500 mA
- Peak current: 50 A
- Standby current: <10 mA

## Other Features

- Operating range -40 C to +85 C
- 4x CAN-bus, up to 1 Mbps
- RS232 - up to 11520 baud
- 7" or 10" GUI;
- 90 pin connector

## Inputs

- 8 x Protected digital inputs
- 4 x Protected analog inputs
- 12 V Internal battery voltage monitor
- 2 x Fully isolated accelerator signal inputs
- 1 x Fully isolated brake position signal input
- 3 x Current monitoring inputs up to 20 A
- Ignition input for system enable.

## Outputs

- 12 x outputs, up to 500 mA
- 1 x positive side output, up to 500 mA
- 2 x PWM outputs up to 10 A
- 2 x Power outputs up to 10 A
- 1 x 5 V/500mA external power supply
- 1 x 3.3 V/500mA external power supply