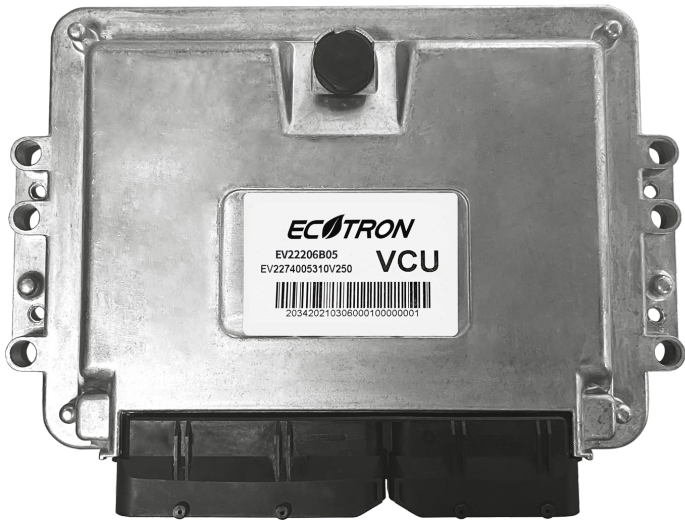# VCU
Vehicle Control Unit
EV2206B05

Intelligent vehicle controller for SAE L3-L4 levels electric vehicle systems

ECOTRON

Multiple Interfaces
CAN, LIN, DI, AI, PWM, HSO, LSO, 5V outputs, etc.

Model-Based Environment
MATLAB/Simulink Model-based development capable

Powerful MCU
NXP ASIL-D rated SPC5606 chip

Compatibilities
All-in-one vehicle control HW platform

TECHNICAL CHARACTERISTICS

CAN	Up to 5 CAN bus with 2 * support wake up
LIN	UP to 1 LIN bus
KEYON	Up to 1 key signal
Digital Input	Up to 18 channels
Analog Input	Up to 13 channels
Frequency	Up to 3 frequency signal input
High-side Output	Up to 10 channels with 2 PWM outputs configurable
Low-side Output	Up to 18 channels with 4 PWM outputs configurable
5V Output	Up to 4 ports
Wake Up Signal	Up to 2 Wake-up signal

INTERFACE

Signal Name	Number	Function	Interface Description
5V Output	4	5V Sensor Voltage	External Sensor 5V Power Supply
AI	12	Analog Input	6 * Analog Signal 0~32V 6 * Analog Signal 0~5V
AI	1	High Voltage Interlock Signal Output	1 * Analog Signal 0~32V
WAKEUP	3	Power-On Signal	1* KEYON 1*Analog Input Wake Up 1*DC Charging Wake Up
DI	18	Digital Input	8 * Active High 10 * Active Low
SPEED	3	Frequency Input	Frequency Range 20Hz-2kHz
HSO	9	High-Side Driver Output	2 * Rated 3A, Maximum 5A 3 * Rated 1A, Maximum 3A 2 * Rated 0.5A, Maximum 1A 2 * Rated 1A, Maximum 3A with PWM Output 2Hz-2kHz configurable
HSO	1	High Voltage Interlock Signal Output	Rated 0.5A, Maximum 1A
LSO	18	Low-Side Driver Output	2 * Rated 3A Maximum 4.5A 5 * Rated 1A Maximum 3A 7 * Rated 0.5A, Maximum 1A 4 * Rated 0.5A, Maximum 1A with PWM Output 2Hz-2kHz configurable
CAN	5	CAN	ALL Supports CAN Flashing 1 * Supports Specific Frame Wake-Up
LIN_BUS	1	LIN BUS	Support Wakeup

DIMENSION