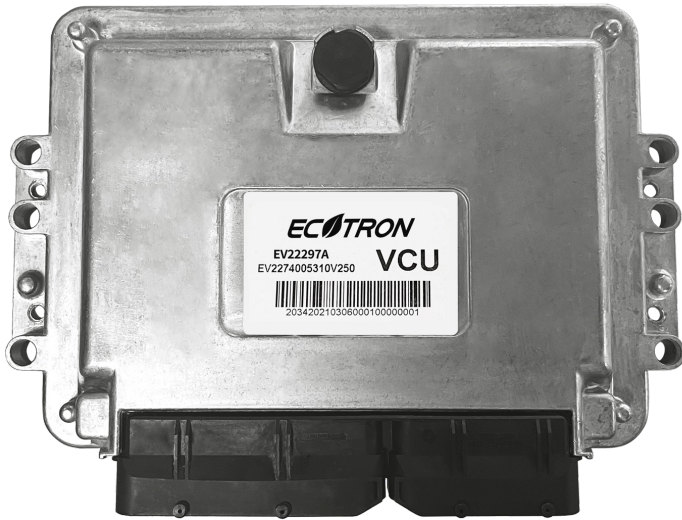


# VCU

## Vehicle Control Unit

EV22297A

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



## Multiple Interfaces

CAN, LIN, DI, AI, PWM, HSO, LSO, 5V/8V outputs, Ethernet, etc.

## Model-Based Environment

MATLAB/Simulink Model-based development capable

## Powerful MCU

Infineon ASIL-D rated TC297TP chip

## Compatibilities

All-in-one vehicle control HW platform

### TECHNICAL CHARACTERISTICS

CAN	Up to 6 CAN bus with 4*CAN-FD, 2*Wake up
LIN	UP to 2 LIN bus
Ethernet	Up to 1 Automotive Ethernet
KEYON	Up to 1 key signal
Digital Input	Up to 13 channels
Analog Input	Up to 22 channels
Frequency	Up to 4 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 6 ports
8V Output	Up to 4 ports
Wake Up Signal	Up to 2 Wake-up signal

## INTERFACE

Signal Name	Number	Function	Interface Description
5V Output	6	5V Sensor Voltage	External Sensor 5V Power Supply
8V Output	4	8V Sensor Voltage	External Sensor 8V Power Supply
AI	22	Analog Input	8 * Analog Signal 0~32V 10 * Analog Signal 0~5V, voltage type 4 * Analog Signal 0~5V, resistor type
WAKEUP	3	Power-On Signal	1* KEYON 2 * Wake Up Signal
DI	13	Digital Input	7 * Active High 6 * Active Low
DI/SPEED	4	Frequency Input	2 * Active High 2 * Active Low
HSO	10	High-Side Driver Output	2 * Rated 3A, Maximum 5A 3 * Rated 1A, Maximum 3A 3 * Rated 0.5A, Maximum 1A 2 * Rated 1A, Maximum 3A with PWM Output configurable
LSO	18	Low-Side Driver Output	7 * Rated 1A Maximum 3A 7 * Rated 0.5A, Maximum 1A 4 * Rated 3A, Maximum 5A with PWM Output configurable
CAN	6	CAN	ALL Supports CAN Flashing 1 * Supports Specific Frame Wake-Up
LIN_BUS	2	LIN BUS	Support Wakeup
MCU_MDI	1	Automotive Ethernet Port	-

## DIMENSION

