

TCU

Transmission Control Unit ET22377A02

Intelligent vehicle control unit designed to control transmission



Multiple Interfaces

CAN, DI, AI, PWM, HSO, H Bridge, 5V outputs, Gyroscope, etc.

Model-Based Environment

MATLAB/Simulink Model-based development capable

Powerful MCU

Infineon ASIL-D rated TC377TP chip

Compatibilities

All-in-one vehicle control HW platform

TECHNICAL CHARACTERISTICS

CAN	Up to 3 CAN bus
H-Bridge	Up to 2 H-Bridge output with 2 supply voltage
KEYON	Up to 1 key signal
Digital Input	Up to 8 channels
Analog Input	Up to 8 channels
Frequency	Up to 4 frequency signal input
High-side Output	Up to 6 channels with 4 PWM outputs configurable
5V Output	Up to 4 ports
Gyroscope	Up to 1 optional

INTERFACE

Signal Name	Number	Function	Interface Description
5V Output	2	5V Sensor Voltage	External Sensor 5V Power Supply
AI	8	Analog Input	8 * Analog Signal 0~5V, resistor type
WAKEUP	1	Power-On Signal	1* KEYON
DI	8	Digital Input	2 * Active High 6 * Active Low
SPEED	4	Frequency Input	PWM Input 1Hz-30kHz configurable
HSO	6	High-Side Driver Output	2 * Rated 3A, Maximum 10A 4 * Rated 1A, Maximum 2A with PWM configurable
H	2	H-Bridge Driver	2 * Rated 10A, Maximum 20A
CAN	3	CAN	ALL Supports CAN Flashing 1 * Supports Specific Frame Wake-Up

DIMENSION

