TCU

Transmission Control Unit

ET22367A

Intelligent vehicle control unit designed to control transmission

Multiple Interfaces

CAN, LIN, Ethernet, DI, AI, PWM, HSO, LSO, H Bridge, 5V outputs, Gyroscope, RTC, etc.

Model-Based Environment

MATLAB/Simulink Model-based development capable

Powerful MCU

Infineon ASIL-D rated TC367DP chip

Compatibilities

All-in-one vehicle control HW platform

TECHNICAL CHARACTERISTICS

CAN	Up to 6 CAN bus
LIN	Up to 1 LIN bus
Ethernet	Up to 1 Automotive Ethernet port
H-Bridge	Up to 4 H-Bridge output
Digital Input	Up to 20 channels
Analog Input	Up to 14 channels
Frequency	Up to 6 frequency signal input
Low-side Output	Up to 18 channels
High-side Output	Up to 10 channels
5V Output	Up to 4 ports
Gyroscope	Up to 1 optional
Real Time Clock	Up to 1 optional

INTERFACE

Signal Name	Number	Function	Interface Description
5V Output	4	5V Sensor Voltage	External Sensor 5V Power Supply
AI	20	Analog Input	6 * Analog Signal 0~5V, voltage type 8 * Analog Signal 0~5V, resistor type 6 * Analog Signal 0~32V, voltage type
WAKEUP	2	Power-On Signal	1* KEYON 1 * Wake Up Signal
DI	14	Digital Input	7 * Active High; 7 * Active Low Active High/Low configurable
SPEED	6	Frequency Input	6 * PWM Input 2Hz-2kHz configurable
HSO	10	High-Side Driver Output	2 * Rated 3A, Maximum 5A 8 * Rated 1A, Maximum 2A with (PWM Output 1Hz-2kHz configurable)
LSO	18	Low-Side Driver Output	2 * Rated 3A Maximum 4A 5 * Rated 1A, Maximum 3A 11 * Rated 0.5 A, Maximum 1A (4 * PWM Output 1Hz-2kHz configurable)
H-Bridge	4	H-Bridge Driver	4 * Rated 10A, Maximum 20A
CAN	6	CAN	ALL Supports CAN Flashing 4 * CANFD 2 * Supports Specific Frame Wake-Up
LIN	1	LIN BUS	Support Wakeup
Ethernet	1	Automotive Ethernet	-

DIMENSION