

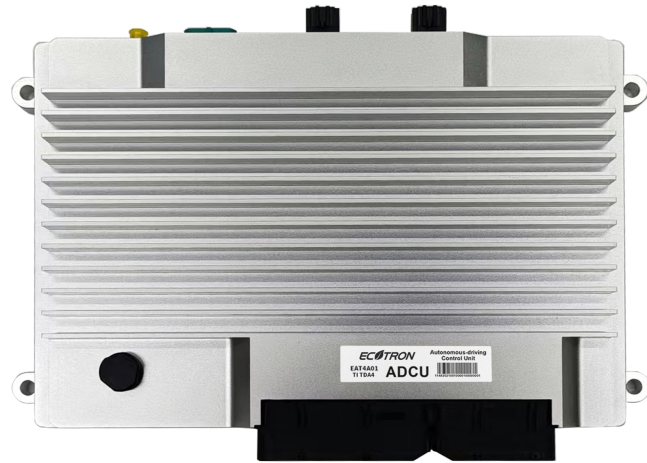
ADAS

TDA4 Platform

EAT4A01

Intelligent computing and vehicle control platform for SAE

L3-L4 levels autonomous systems



8 TOPS

Computation Capabilities

L3-L4 level

Oriented

Powerful SoC

TI-TDA4 chip

Powerful MCU

Infineon ASIL-D rated TC397 chip

Advanced Features

High-precision maps, localization, and navigation

TECHNICAL CHARACTERISTICS

Camera	Up to 6 FPDlink 3 cameras
Ethernet	Up to 2 Gigabit Automotive Grade
Ethernet	UP to 2 100M Automotive Grade
CAN	UP to 14 CANFD ports
Serial Port	Up to 2 RS232 channels
LIN	Up to 2 Lin bus
Radar	Up to 12 channels USS Ultrasonic Radar
Digital Input	Up to 6 channels
Analog Input	Up to 4 channels
Low-side output	Up to 8 channels
5V Sensor Power	Up to 2 ports @ MAX current 100mA
Navigation	GPS + IMU

INTERFACE

Interface type	Number	Function	Chip	Connector
Camera interface	6	FPDLink III Serial CAM	SOC	Waterproof FAKRA
Gigabit Automotive Ethernet	2	1000Base-T1	Switch	4-chamber waterproof
Automotive Ethernet	2	100Base-T1	Switch	4-chamber waterproof
DP	1	DP channel HDMI	SOC	
USB	1	1 channels USB Host support USB2.0, US3.0, USB3.1	SOC	
M.2 KEY M	1	Extended storage	SOC	Internal
GPS+IMU	1	Localization	SOC	
RS232	2	1 channels for Debug	SOC	
PPS_IN	1	Support 3.3V-16V, hardware config	SOC	121 PIN-CMC
PPS_OUT	2	2 channels 5V pulse signal	SOC	
CANFD	6		SOC	

CAN/CANFD	8	1 channels support specific frame wake up	MCU	121 PIN-CMC
LIN	2		MCU	
USS	12	Ultrasonic Radar	MCU	
KEYON	3	1 channels for SOC, 2 channels for MCU		
Digital Input	6	Default settings: 2 channels active-high, 4 channels active-low	MCU	
Analog Input	4	Default settings: 2 channels for 5V, 2 channels are resistance type	MCU	
Digital Low-side output	8	8 channels @ 250mA support 2 channels PWM	MCU	
5V Sensor power	2	Maximum current 100mA	MCU	
Power Positive	6	Redundant power supply, 3*main, 3* backup		
Power Ground	7			
Signal Ground	8			