ADCU

Dual Orin Platform

EAORA07

Intelligent computing and vehicle control platform for SAE L3-L4 levels autonomous systems

400 TOPS
Computation Capabilities

L3-L4 level
Oriented

Dual SoC
Two NVIDIA ORIN chips

Powerful MCU
Infineon ASIL-D rated TC397 chip

Navigation
High-precision maps, localization, and navigation

TECHNICAL CHARACTERISTICS

Camera	Up to 12 GMSL2 cameras
Ethernet	Up to 12 100/1000M Automotive
CAN	UP to 12 CANFD ports
Serial Port	Up to 8 RS232 channels
LIN	Up to 2 Lin bus
Radar Port	Up to 12 Ultrasonic radar ports
Digital Input	Up to 4 channels
Analog Input	Up to 4 channels
Low-side output	Up to 4 channels
High-side output	Up to 4 channels
5V Sensor Power	Up to 2 ports @ MAX current 100mA
Navigation	GPS + IMU

INTERFACE

Interface type	Number	Function	Chip	Connector
Camera interface	12	GMSL2	SOC	3 * FAKRA
100M Automotive Ethernet	4	100BASE-T1	Switch	2* 6 cavity connector
Gigabit Automotive Ethernet	8	1000BASE-T1	Switch	
HDMI	2		SOC	
USB	2	2 channels USB Host support USB2.0, US3.0, USB3.1	SOC	
M.2 KEY M	1	Extended storage	SOC	Internal
GPS+IMU	1	Extended SSD	SOC	
CANFD	4		SOC	121 PIN-CMC
RS232	8	2 channels for Debug	SOC	
PPS_IN	2	Support 5V-16V	SOC	
PPS_OUT	4	PPS is 5V high voltage pulse signal	SOC	
CAN	1		GNSS	
RS232	1		GNSS	
CANFD	8	2 channels support specific frame wake up	MCU	
LIN	2		MCU	
USS	12		MCU	
KEYON	4	2 channels for SOC 2 channels for MCU	MCU	
Digital Input	4	Default settings: 2 channels active-high, 2 channels active-low	MCU	
Analog Input	4		MCU	121 PIN-CMC
Low-side output	4	4 channels @ 250mA	MCU	
High-side output	4	4 channels @ 1A	MCU	
5V Sensor power	2	Maximum current 100mA	MCU	
Power Positive	6			
Power Ground	7			
Signal Ground	2			