ADCU
Single Orin Platform
EAORA04

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

200 TOPS
Computation Capabilities

L3-L4 level
Oriented

Powerful SoC
NVIDIA ORIN chip

Powerful MCU
Infineon ASIL-D rated TC397 chip

Advanced Features
High-precision maps, localization, and navigation

TECHNICAL CHARACTERISTICS

Camera	Up to 8 GMSL2 cameras
Ethernet	Up to 3 100/1000M Automotive
Ethernet	UP to 2 100/1000M Standard Ethernet
CAN	UP to 6 CANFD ports
Serial Port	Up to 3 RS232 channels, 1 RS485 channel
LIN	Up to 4 Lin bus
Digital Input	Up to 6 channels
Analog Input	Up to 6 channels
Low-side output	Up to 8 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	8	GMSL2	SOC	Waterproof FAKRA
Gigabit Standard Ethernet	2	100BASE-T/1000BASE-T standard	Switch	2 * Aviation plug
Gigabit Automotive Ethernet	3	100Base-T1/1000Base-T1	Switch	1 * Aviation plug
HDMI	1	1 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
RS485	1		SOC	
RS232	3	1 channels for Debug	SOC	121 PIN-CMC
PPS_IN	1	Support 3.3V-16V, hardware config	SOC	
PPS_OUT	4	2 channels 5V or 3.3V output, 2 channels 12V output	SOC	
CAN	2		SOC	

Interface type	Number	Function	Chip	Connector
CANFD	6	2 channels support specific frame wake up	MCU	
LIN	4	No wake-up function is required	MCU	
KEYON	3	1 channels for SOC 2 channels for MCU	MCU	
Digital Input	6	Default settings: 4 channels active-high, 2 channels active-low	MCU	
Analog Input	6	Default settings: 2 channels for 5V, 2 channels for 36V, 2 channels are resistance type	MCU	121 PIN-CMC
Digital Low-side output	8	8 channels @ 250mA	MCU	
Digital High-side output	4	4 channels @ 1A	MCU	
5V Sensor power	2	Maximum current 100mA	MCU	
Power Positive	4			
Power Ground	4			
Signal Ground	8			