TAURO TECHNOLOGIES

Key Features

▶ Dual Orin Controllers 550TOPS

▶ Infineon TC397 safety MCU

▶ Advanced AI Performance

▶ GMSL2 interface for cameras

▶ 100Base-T1/1000Base-T1 Ethernet

▶ Wi-Fi/4G/5G

Applications

▶ Autonomous Transportation

▶ Mining

▶ Agriculture

▶ Robotics

▶ UAV

TT300 Dual AGX Orin Controller

For Automotive and Industrial Applications

Overview

TT300 Dual AGX Orin is an AI compute platform, that provides exceptional AI performance and low power consumption, in a compact form factor. With up to 400/550 TOPS this product can be used ins autonomous vehicles, UAVs and Robotics. The product is designed for high reliability and redundancy, provides multi-sensor clock synchronization with sub-nanosecond accuracy and millisecond latency for precise timing.

The product is powered by two NVIDIA Jetson AGX Orin modules and Infineon TC397 safety MCU enables the design to meet ASIL-D highest reliability requirements. The I/O capabilities of the product include automotive as well as industrial ethernet interfaces, wireless connectivity over 4G/5G and Wi-Fi, GMSL camera and LVDS radar interfaces for ADAS applications, as well as CAN and LIN interfaces for automotive and robotics applications. Wide selection of interfaces and customization options makes this device easily adaptable to various use cases and application scenarios.

Key Advantages

▶ Dual NVIDIA Jetson AGX Orin 32GB/64GB SOM 400/550TOPS

▶ Infineon TC397 safety MCU

▶ GMSL2 / GMSL camera trigger

▶ 10GBase-T, 100/1000Base-T, 100/1000Base-T1 Ethernet

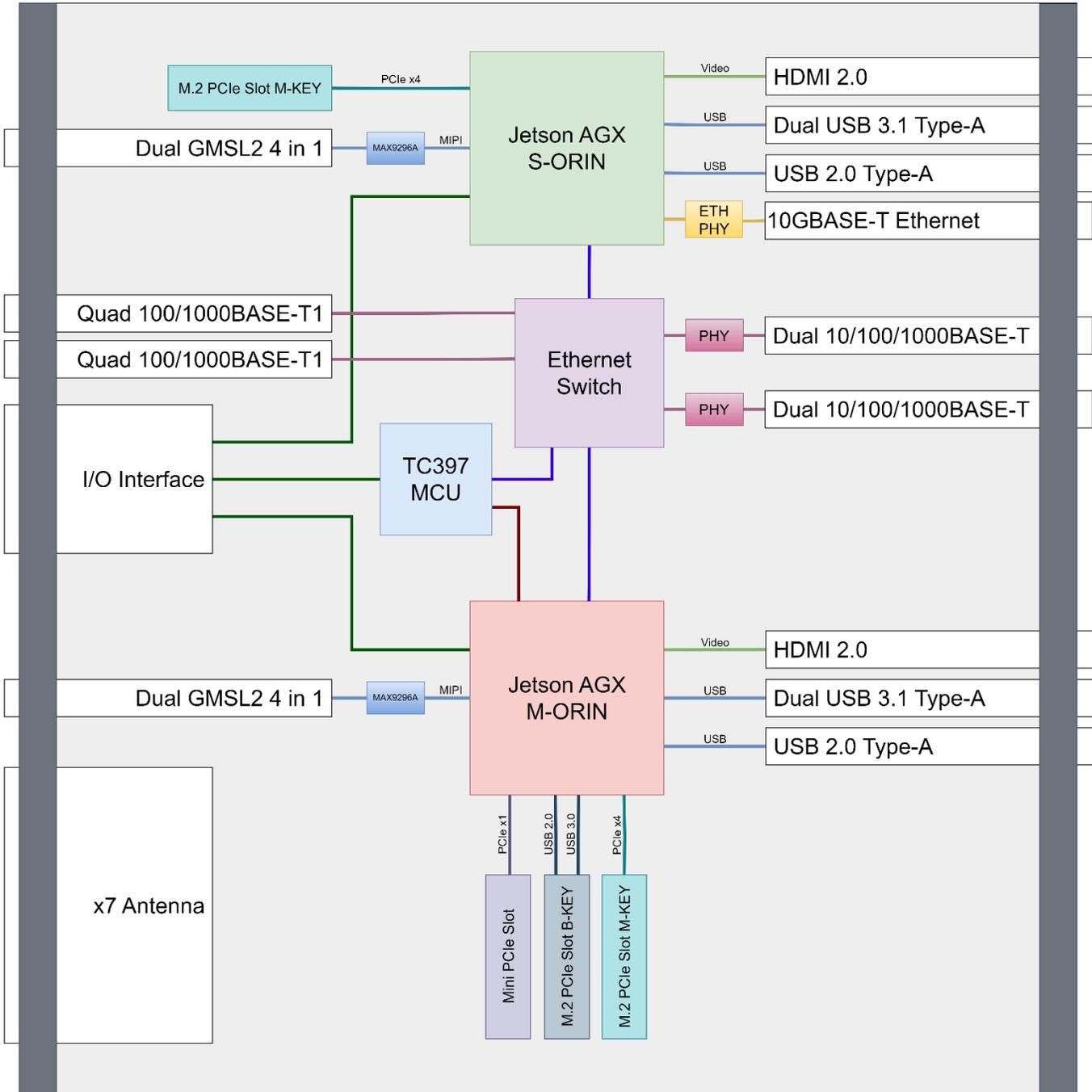▶ ISO16750 compliant and IP65 waterproof

Block Diagram

Figure 1: Functional Block Diagram

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Chassis

Figure 2: TT300 Front View

Figure 3: TT300 Rear View

Specifications

SOM	Dual NVIDIA Jetson AGX Orin	
EXPANSION	Nano SIM Socket x1	M-Orin
	M.2 Type-B x1 (for 4G/5G)	M-Orin
	Mini PCIe x1 (for Wi-Fi)	M-Orin
	M.2 Type-M x2 (for SSD)	x1 each Orin
	SD Card Slot x1	M-Orin
I/O	1000Base-T Ethernet x4	x2 each Orin
	1000BASE-T1 Ethernet x4	x2 each Orin
	100BASE-T1 Ethernet x4	x2 each Orin
	HDMI 2.0 x2	x1 each Orin
	USB 3.0 x4	x2 each Orin
	DI x12	x4 M-Orin x2 S-Orin x6 TC397
	DO x12	x4 M-Orin x2 S-Orin x6 TC397
	CAN FD x12	x2 M-Orin x2 S-Orin x8 TC397
	UART x8	x3 RS232 M-Orin, x1 S-Orin x3 RS422/RS485 M-Orin, x1 S-Orin
	LIN x2	TC397
	SYNC_IN x2	x1 each Orin
	SYNC_OUT x2	x1 each Orin
	SYNC_PPS x1	M-Orin
CAMERA	GMSL2 4 in 1 Mini-Fakra x4	x2 each Orin
RADAR	LVDS Radar Interface x1	TC397
POWER REQUIREMENT	DC 18V-36V	
MAXIMUM POWER CONSUMPTION	150W (425W with I/O)	

Ordering Options

Part Number	Description
TT300-100-000-000	TT300 Dual Orin Controller with NVIDIA Jetson AGX Orin 32GB
TT300-200-000-000	TT300 Dual Orin Controller with NVIDIA Jetson AGX Orin 64GB

The system can be customized for specific customer requirements, contact Tauro Technologies sales for details.

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