

TRIZEPS SODIMM SOM



SOM-Trizeps-X-Genio360

SODIMM-200 CPU Computer on Module with MediaTek Genio 360 Applications Processor

Ultra-compact SOM integrating advanced ML acceleration, delivering exceptional price-performance for industrial edge applications



HIGHLIGHTS

CPU MediaTek Genio 360 processor MediaTek 8th-Gen NPU, 5.1 TOPS	CONNECTIVITY 1x GbE Mac/Phy (opt. WiFi/BT)
GRAPHICS Mali-G57 GPU	MEMORY 1GB/2GB and 4GB LPDDR4X/LPDDR4-3733 soldered down memory

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Safety & Surveillance



Smart Devices

FEATURES

Processor	MediaTek Genio 360 processor: 1x Arm Cortex A76 @1.8~2.0Ghz 5x Arm Cortex A55 processor @1.7~2GHz ARMv8-A 128kB L2 + shared L3 cache	Other Interfaces	SDIO I2C 2xPWM SPI 4xAnalog In
NPU	MediaTek 8th-Gen NPU, 5.1 TOPS total/6T	Power Supply	3.3 V
Memory	1GB/2GB and 4GB LPDDR4X/LPDDR4-3733 soldered down memory	Operating System	Clea OS
Mass Storage	eMMC 5.1 soldered down, up to 64GB, EEPROM for configuration	Dimensions	67.6 x 36.7 x 6.4 mm
Networking	1x Gigabit Ethernet Mac/Phy Optional WiFi/BT	Accessories	JTAG Adapter for Debugging
USB	1x USB 3.2 Gen 1 1x USB 2.0 Host	Security	Optional TPM 2.0
PCI-e	PCIe x1 Gen 2	CAN Bus	1x CAN-FD
Graphics	Arm Mali-G57 550-700MHz (dual display possible)	Operating Temperature*	0 to 70°C (Consumer) -25 to 85°C (Extended Consumer) -40 to 85°C (Industrial)
Video Interfaces	DP1.4 or eDP1.3 and LVDS and MIPI-DSI 1xMIPI CSI-4Lane 1x MIPI CSI-2Lane	*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.	
Video Resolution	4K60 via DP1.4 eDP1.3		
Audio	MIC, Line- In, Headphone Out, Mono Speaker		
Serial Ports	3x UART		

Streamline and expedite your edge computing implementations

OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

ASTARTE

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

EDGEHOG

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



Scan to know more about our solution

CLEA OS



CLEA DOCS

