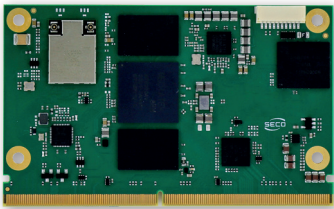




## SOM-SMARC-Genio700

SMARC® Rel. 2.1.1 module with MediaTek Genio 700 Applications Processors

### High-performance multimedia Arm® processing and AI acceleration in compact SMARC® module.



#### HIGHLIGHTS

<b>CPU</b> MediaTek Genio 700	<b>CONNECTIVITY</b> Up to 1x Gb Ethernet, 1x USB 3.1, 2x USB 2.0, 1x CAN, 4 x UART, opt Wi-Fi +BT 5.0, MIPI-CSI, 1x I2S
<b>GRAPHICS</b> Mali-G57 MC3 GPU	<b>MEMORY</b> Soldered-down LPDDR4X-3733 memory, up to 8GB total

Available in Industrial Temperature Range



#### MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Smart Devices



Digital Signage

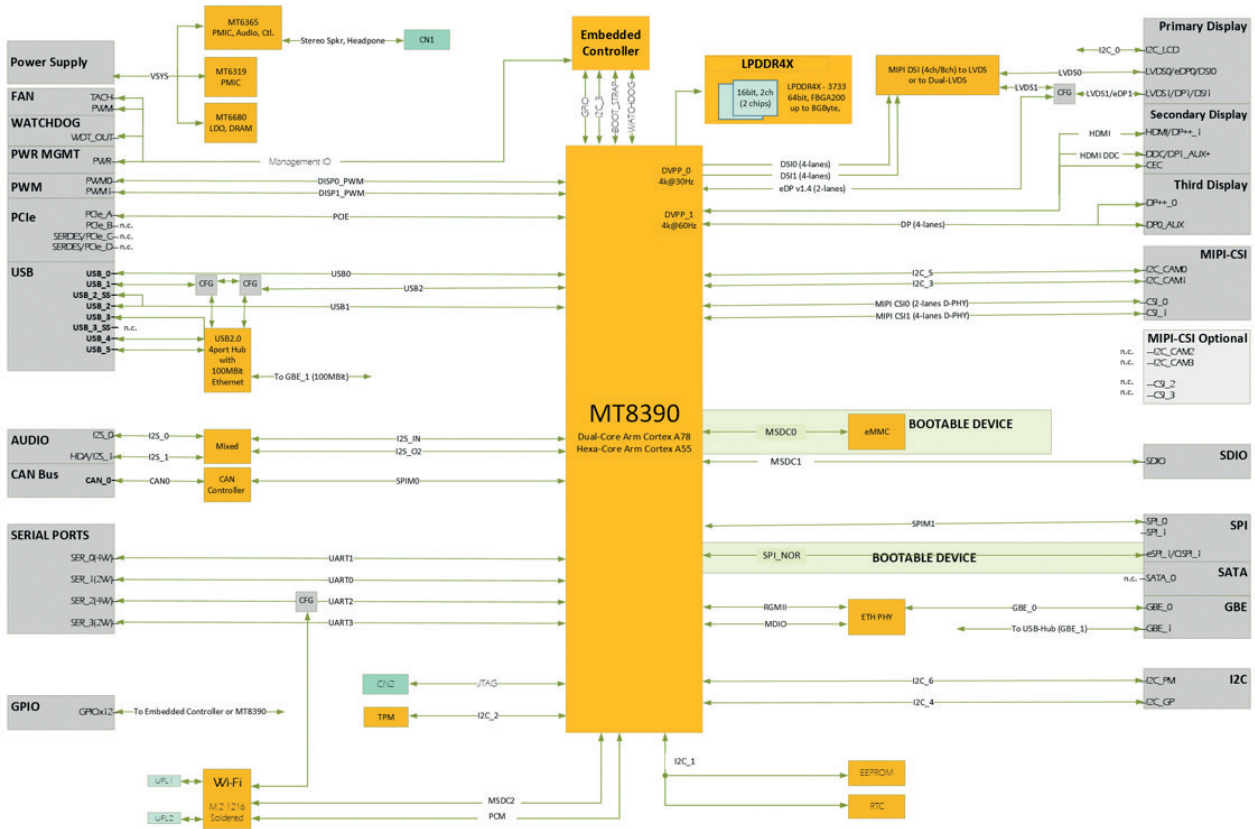
#### FEATURES

<b>Processor</b>	2x Arm® Cortex®-A78 @ 2.2 GHz 6x Arm® Cortex®-A55 @ 2.0 GHz AI Accelerator: Cadence Tensilica VP6 with Mediatek APU3.0 System Companion Chip: MDSP RV55 DSP: Cadence Tensilica HiFi5 Image Signal Processor (ISP)	<b>CAN Bus</b>	1x CAN interfaces (via SPI CAN Controller)
<b>Memory</b>	Soldered-down LPDDR4X-3733/LPDDR4-3200 memory, up to 8GB total	<b>Other Interfaces</b>	GPIOs MIPI-CSI camera interface General Purpose I2C Bus PWM ports
<b>Video Interfaces</b>	LVDS dual channel or eDP (factory alternatives) HDMI® DP	<b>Security</b>	TPM
<b>Video Resolution</b>	MIPI/eDP: up to 2560x1600p60 HDMI®/DP: up to 4K60	<b>Embedded Controller Functionalities</b>	Power management Watchdog Boot select signals GP I/O
<b>Mass Storage</b>	eMMC 5.1 Drive soldered on-board, up to 64GB (boot device) SDIO Interface	<b>Power Supply</b>	+5V <sub>DC</sub> ± 5% and +3.3V <sub>RTC</sub>
<b>Graphics</b>	Mali-G57 MC3 GPU	<b>Operating System</b>	Linux Yocto Kirkstone Android T (13)
<b>Networking</b>	1x Gigabit Ethernet (RGMII) 1x 100Mbit Ethernet (USB) Optional Wifi 802.11 a/b/g/n/ac 2x2 and BT 5.3 utilising onboard module with M2.I2I6 standard form factor	<b>Operating Temperature*</b>	0 ÷ +60°C (Commercial Range) -20 ÷ +85°C (Extended Commercial Range) -40 ÷ +85°C (Industrial Range)
<b>USB</b>	1x USB3.1 1x USB2.0 Host/Slave 4x USB2.0 Host	<b>Dimensions</b>	82 x 50 mm
<b>Audio</b>	2x I2S port	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
<b>Serial Ports</b>	2x UART (4-wires) 2x UART (2-wires)		

# SOM-SMARC-Genio700

SMARC® Rel. 2.1.1 module with MediaTek Genio 700 Applications Processors

## BLOCK DIAGRAM



# Streamline and expedite your edge computing implementations

## EDGEHOG 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.

## DATA ORCHESTRATION

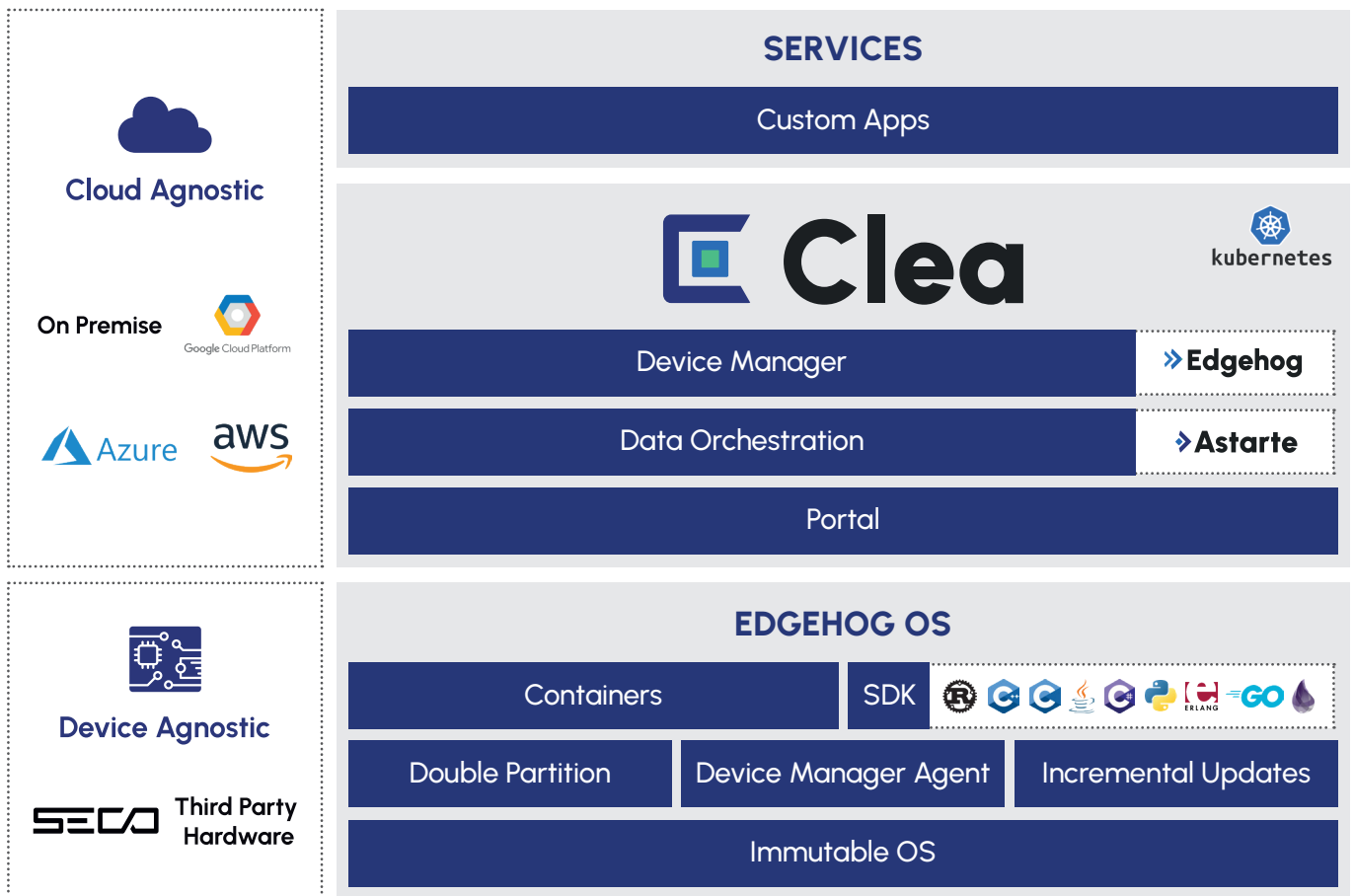
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## DEVICE MANAGER

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

EDGEHOG OS



CLEA DOCS

