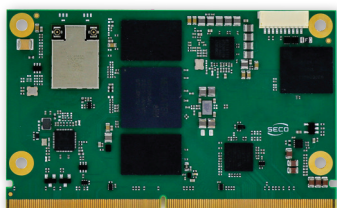




SOM-SMARC-Genio510

SMARC® Rel. 2.1.1 module with MediaTek Genio 510 Applications Processors

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HIGHLIGHTS



CPU
MediaTek Genio 510



CONNECTIVITY
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



GRAPHICS
Mali G57 MC2 GPU



MEMORY
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

Processor	2x Arm® Cortex®-A78 @ 2.2 GHz 4x 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)	CAN Bus	1x CAN interfaces (via SPI CAN Controller)
Memory	Soldered-down LPDDR4X-3733/LPDDR4-3200 memory, up to 8GB total	Other Interfaces	GPIOs MIPI-CSI camera interface General Purpose I2C Bus PWM ports
Video Interfaces	LVDS dual channel or eDP (factory alternatives) HDMI® DP	Security	TPM
Video Resolution	MIPI/eDP: up to 2560x1600p60 HDMI®/DP: up to 4K60	Embedded Controller Functionalities	Power management Watchdog Boot select signals GP I/O
Graphics	Mali-G57 MC2 GPU	Power Supply	+5V _{DC} ± 5% and +3.3V _{RTC}
Mass Storage	eMMC 5.1 Drive soldered on-board, up to 64GB (boot device) SDIO Interface	Operating System	Linux Yocto Kirkstone Android T (13)
Networking	1x Gigabit Ethernet (RGMI) 1x 100Mbit Ethernet (USB) Optional Wifi 802.11 a/b/g/n/ac 2x2 and BT 5.3 utilising onboard module with M2.I216 standard form factor	Operating Temperature*	0 ÷ +60°C (Commercial Range) -20 ÷ +85°C (Extended Commercial Range) -40 ÷ +85°C (Industrial Range)
USB	1x USB3.1 1x USB2.0 Host/Slave 4x USB2.0 Host	Dimensions	82 x 50 mm
Audio	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.	
Serial Ports	2x UART (4-wires) 2x UART (2-wires)		

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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

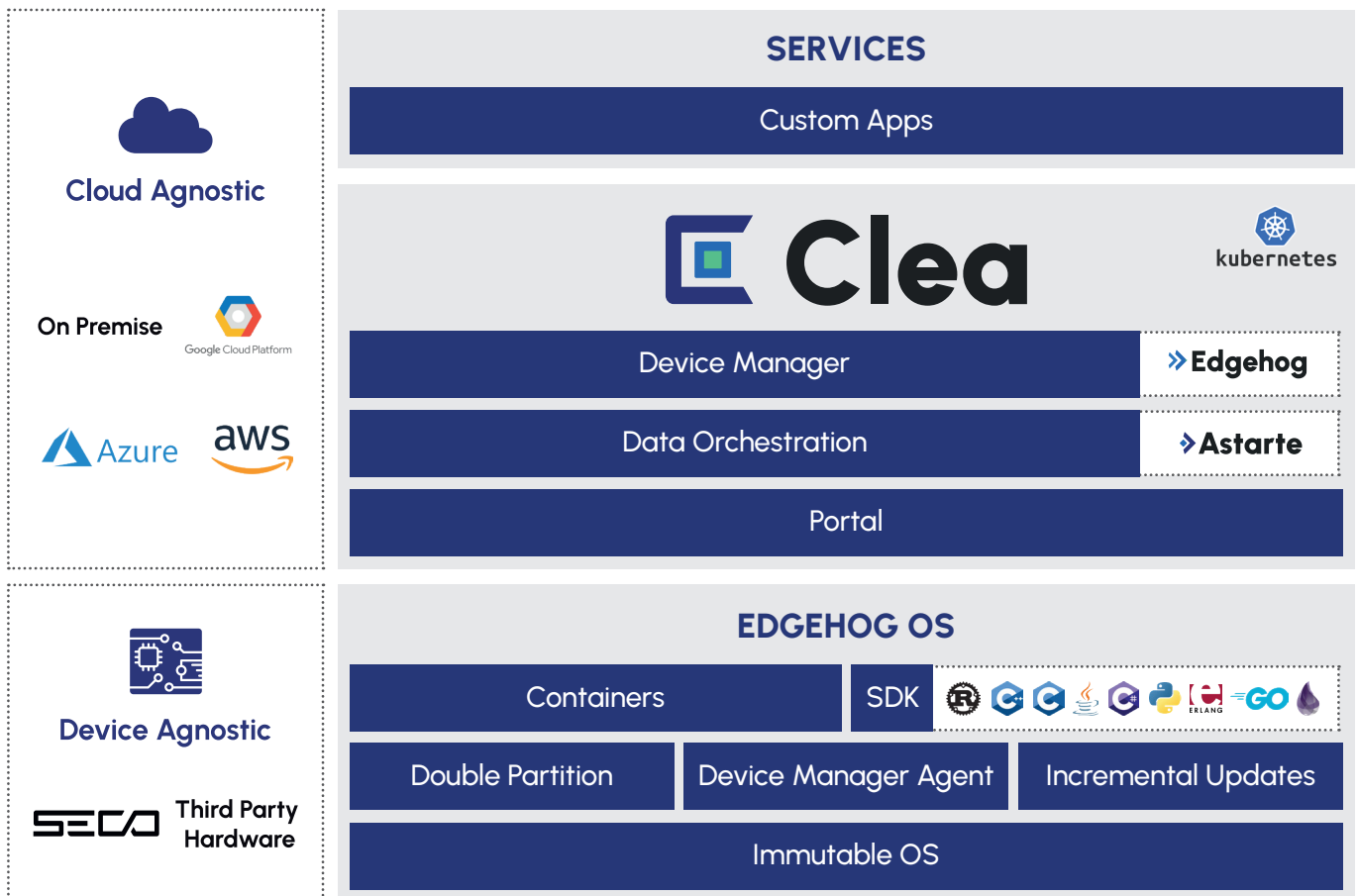
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.



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EDGEHOG OS



CLEA DOCS

