



Modular Vision 10.1 Genio510

Cost effective 10.1-inch HMI based on MediaTek Genio 510

Flexibility and expandability in a unique modular HMI concept



HIGHLIGHTS



CPU
MediaTek Genio 510



CONNECTIVITY
Gb Ethernet, RS485, CAN, RS232, USB, Digital I/O



GRAPHICS
Mali-G57 MC2 GPU



MEMORY
Up to 8 GB LPDDR4x soldered down memory

MEDIATEK

Clea
OS

MAIN FIELDS OF APPLICATION



Coffee &
Vending



Medical



Industrial
Automation



Smart Buildings &
Smart Cities



Digital
Signage

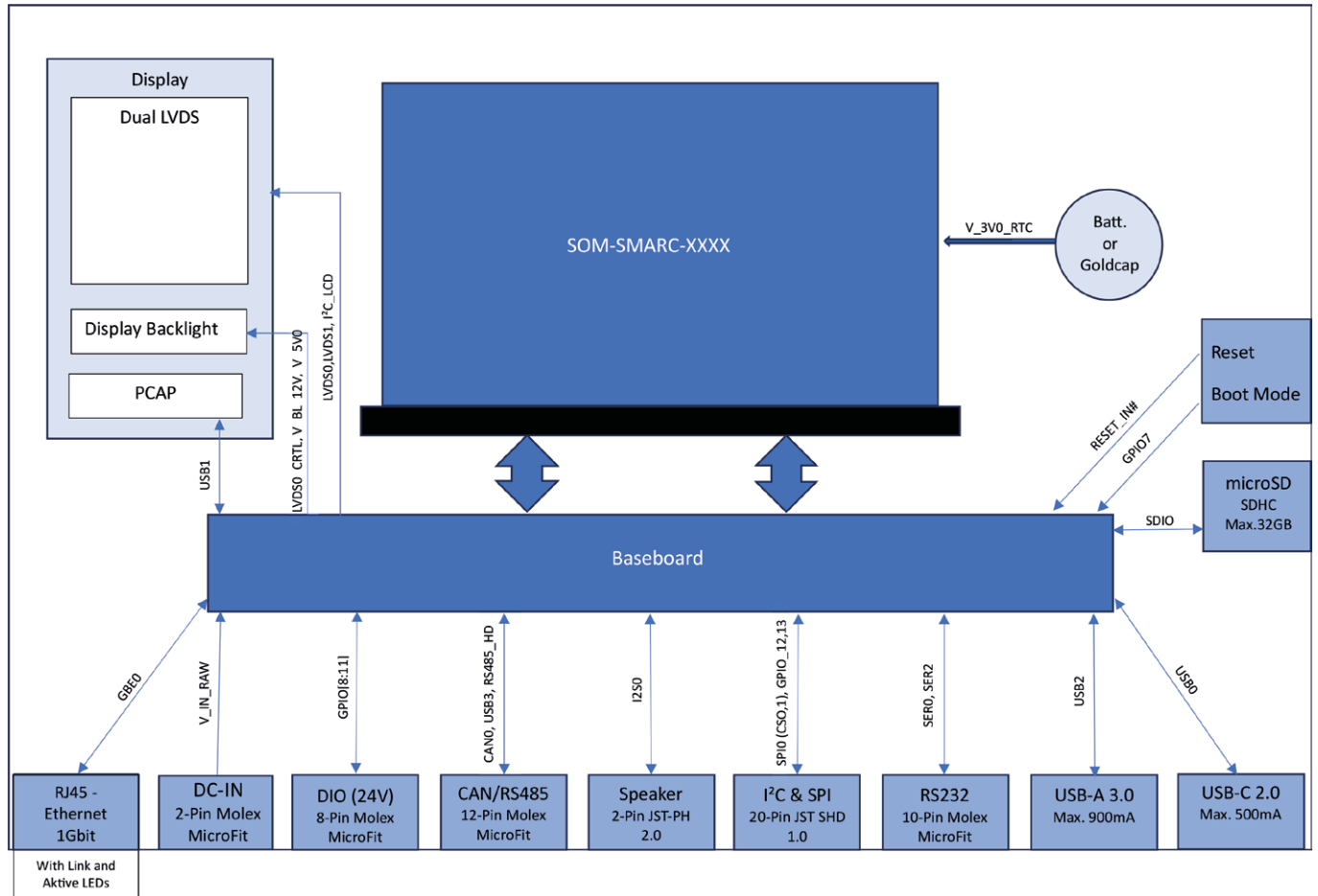
FEATURES

Processor	MediaTek Genio510: 2x Arm® Cortex®-A78 @2.2 GHz + 4x Arm® Cortex®-A55 @2.0 GHz	Other Interfaces	I²C, SPI, GPIO expansion on 20-pin JST SHD 1.0 2x digital I/O
Memory	LPDDR4x up to 8 GB	Power Supply	9 V _{DC} ÷ 32 V _{DC}
Mass Storage	eMMC up to 64 GB Optional Micro SD card socket	Operating System	Clea OS
Networking	1x Gb Ethernet	Dimensions	270 x 187 x 52 mm
USB	1x USB 3.0 1x USB 2.0, with OTG functionality	Security	TPM - Trusted Platform Module Secure Boot available
Graphics	Mali-G57 MC2 GPU	CAN Bus	1x CAN
Video Interfaces	Single/Dual channel LVDS interface Optional eDP interface	Operating Temperature	0 ÷ 60 °C
Video Resolution	10.1" display, resolution 1280 x 800 pixel, 30K hours backlight lifetime 400cd/m² brightness	Norms & Standards	EN 55032 + EN 55035 inf tech EMC standards FCC 47 CFR Part 15 Subpart B (unintentional radiators) The board must be compliant to RoHS Directive 2011/65/EU The board must be compliant to REACH UL listed component EN 62368-1
Audio	Speaker output, mono, up to 3 Watt RMS		
Serial Ports	2x RS232, 1x RS485 Optional MDB		

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BLOCK DIAGRAM



Streamline and expedite your edge computing implementations

Clea 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.

Clea Astarte

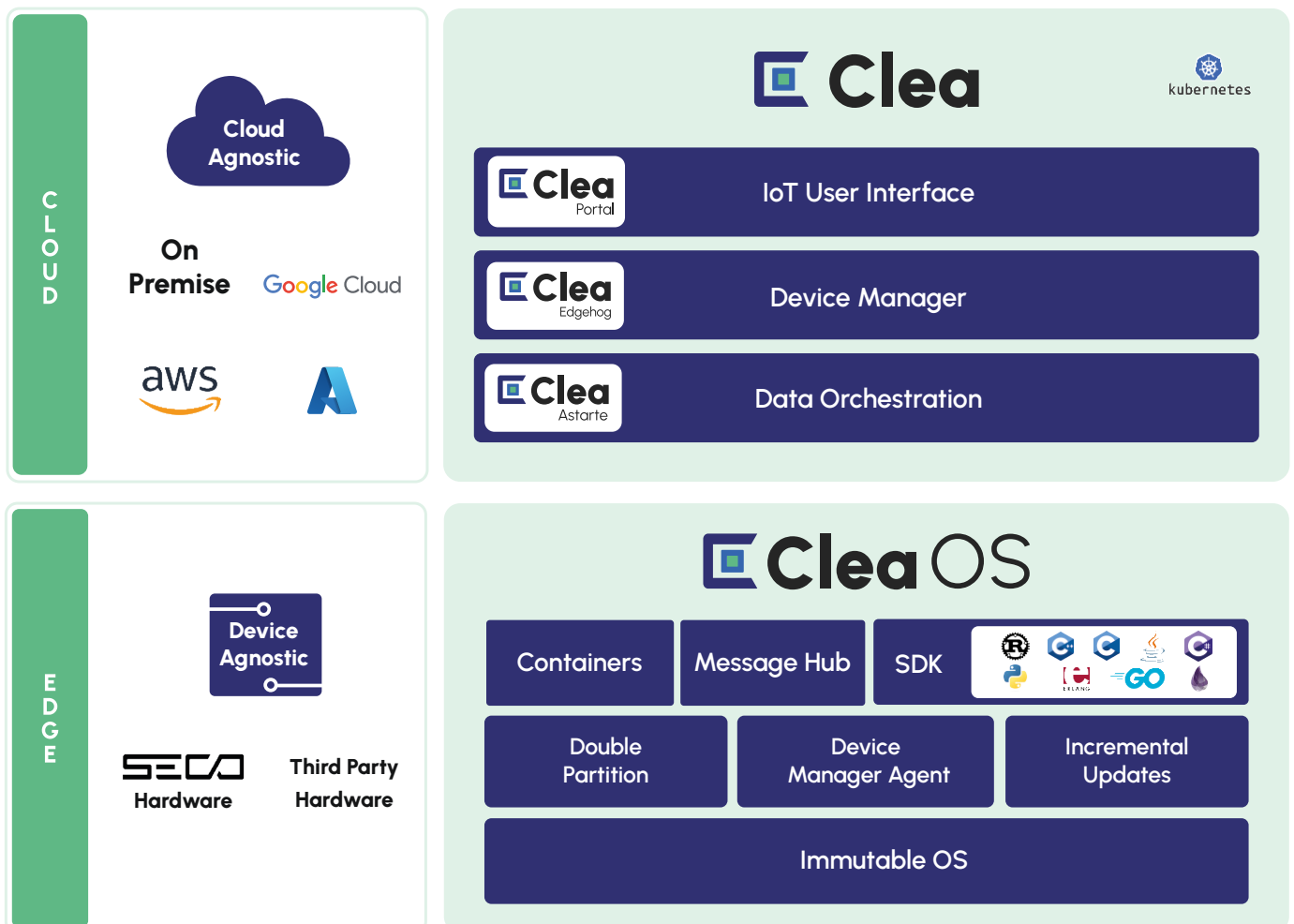
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

Clea Edgehog

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

Clea 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

