Modular HMI Solutions

Modular Vision 10.1 QCS6490

High end 10.1 inch HMI based on Qualcomm® Dragonwing QCS6490

Flexibility and expandability in a unique modular HMI concept



HIGHLIGHTS

PROCESSOR
Qualcomm® Dragonwing QCS6490

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

GRAPHICS
Adreno GPU 643 with support for OpenGL ES 3.2, OpenCL 2.0, Vulkan 1.x, DX FL 12

MEMORY
Quad channel LPDDR5 soldered down with IBECC

Qualcomm

yocto PROJECT · Clea OS

MAIN FIELDS OF APPLICATION

Medical | Safety & Surveillance | Industrial Automation | Smart Devices | Smart Buildings & Smart Cities | Digital Signage | Energy & Utilities

FEATURES

Processor	1x Arm® Cortex®-A78 @2.7 GHz, 3x Arm® Cortex®-A78 @2.4 GHz, and 4x Arm® Cortex®-A55 @1.8 GHz
Memory	Soldered-down LPDDR5-6400 memory, up to 8 GB total, 32-bit interface 2 channels
Graphics	Qualcomm® AdrenoTM 643L
Video Resolution	10.1" display, resolution 1280 x 800, LED lifetime 50K hours, 400cd/m² brightness P-Cap (Projected Capacitive touch screen), with 3.0mm chemically strengthened cover glass
Mass Storage	eMMC 5.1 drive soldered on-board, up to 64GB (boot device) SD 4-bit interface (boot device) µSD Card Holder
Networking	1x Gigabit Ethernet interfaces

USB	1x USB C 2.0 Dual Role 1x USB 3.0 Type A
Serial Ports	2x RS-232, 1x RS-485
Other Interfaces	1x I²C, SPI, 2x Digital In, 2x Digital Out speaker out
Power Supply	9 V_{DC} ÷ 32 V_{DC}
Operating System	Clea OS (Yocto)
CAN Bus	1x CAN-FD
Operating Temperature	0 - 60 °C
Dimensions	270.1 x 187.1 x 51.7 mm

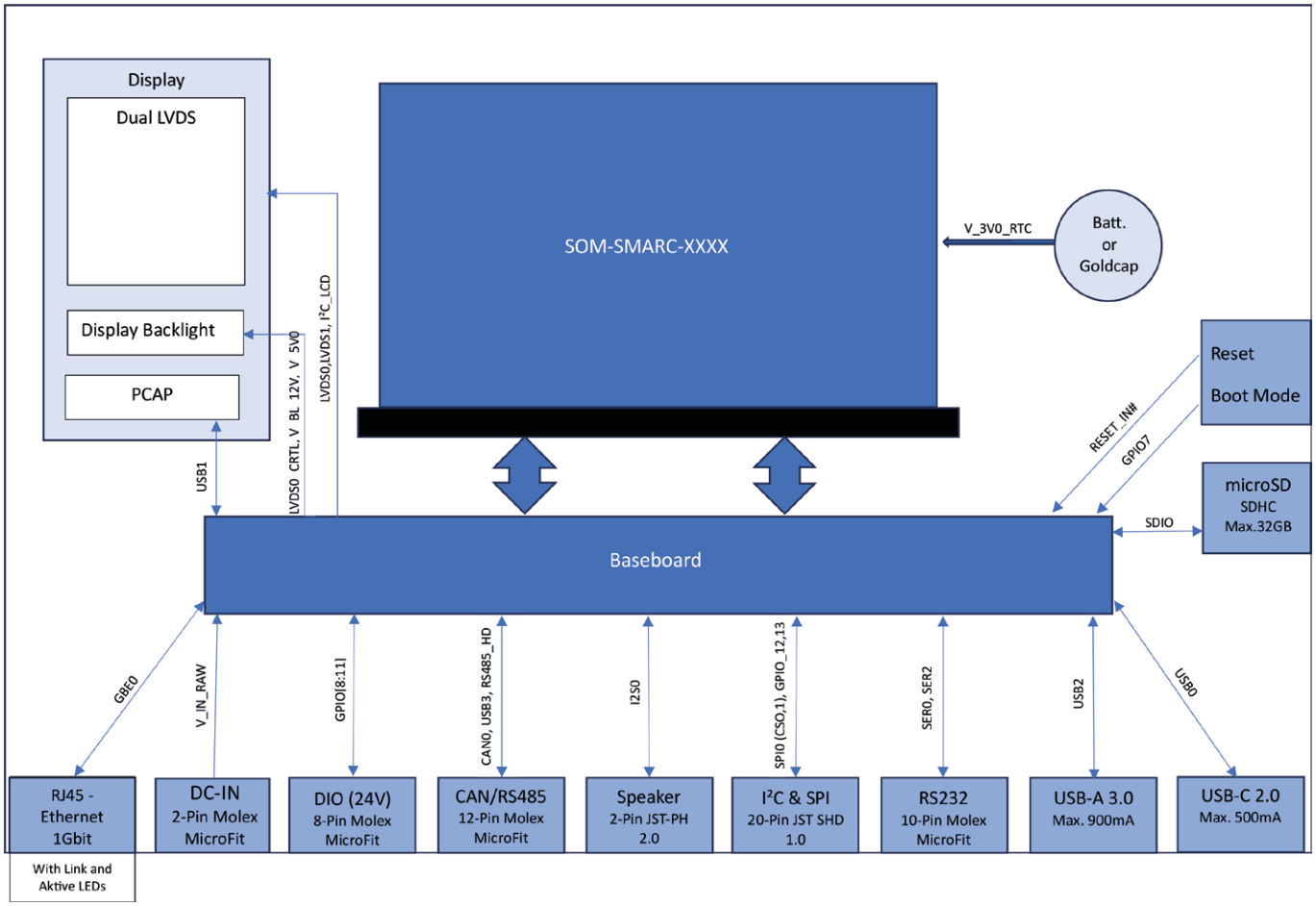
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BLOCK DIAGRAM



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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 Edgehog

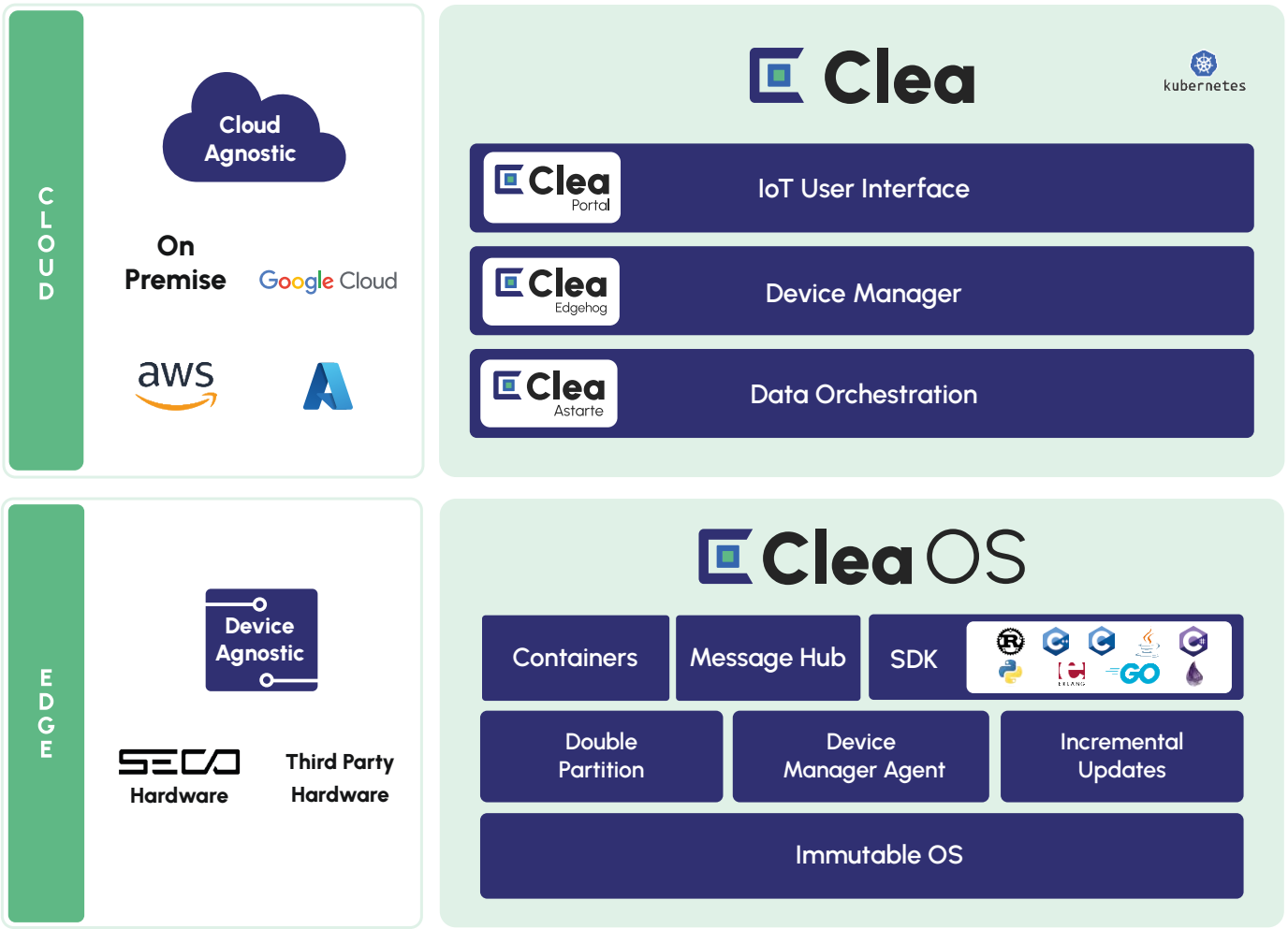
Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

Clea Astarte

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

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.



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Clea OS

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