



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 IB ECC

Qualcomm

yocto · Clea
PROJECT OS

MAIN FIELDS OF APPLICATION



Medical



Safety & Surveillance



Industrial Automation



Smart Devices



Smart Buildings & Smart Cities



Digital Signage



Energy & Utilities

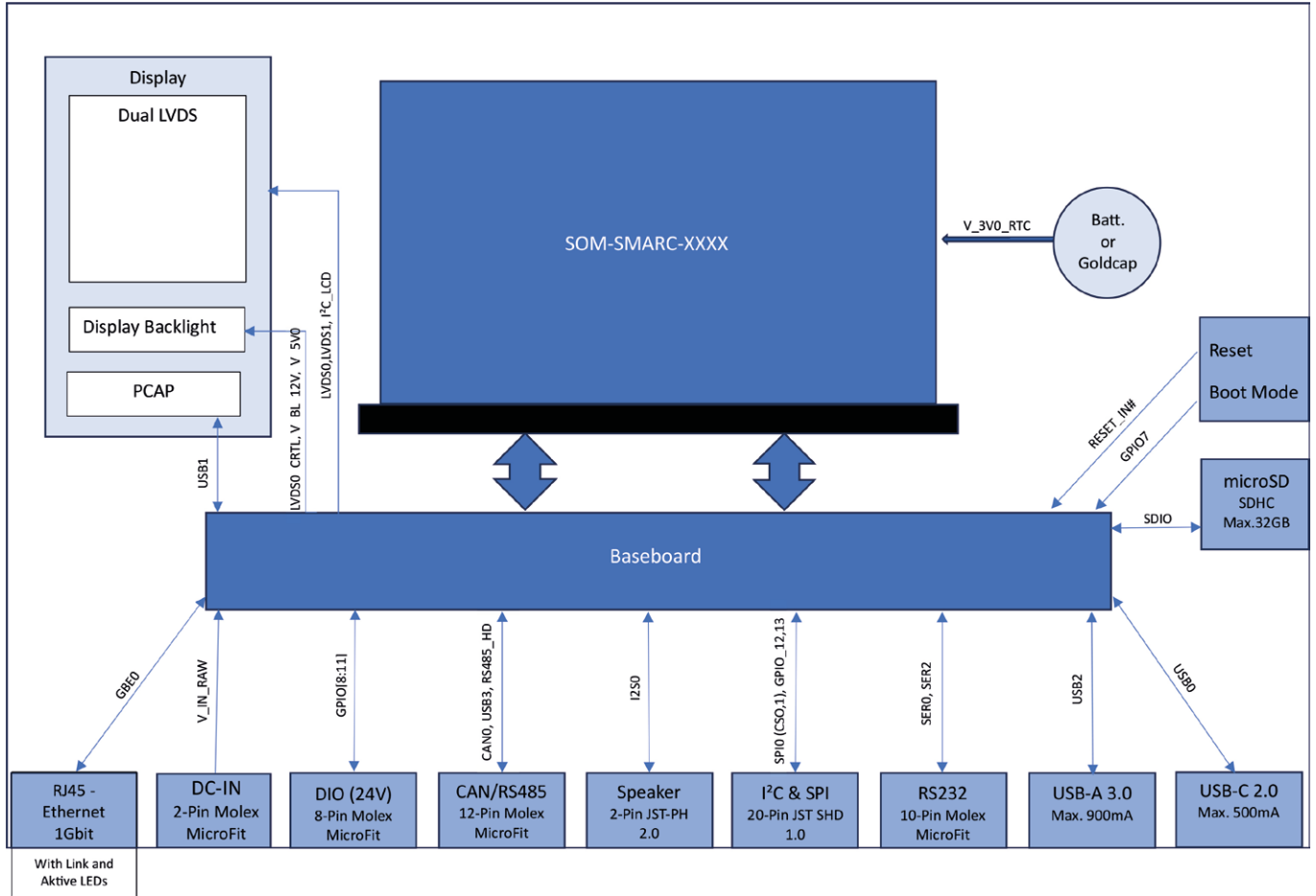
FEATURES

Processor	1x Arm® Cortex®-A78 @2.7 GHz, 3x Arm® Cortex®-A78 @2.4 GHz, and 4x Arm® Cortex®-A55 @1.8 GHz	USB	1x USB C 2.0 Dual Role 1x USB 3.0 Type A
Memory	Soldered-down LPDDR5-6400 memory, up to 8 GB total, 32-bit interface 2 channels	Serial Ports	2x RS-232, 1x RS-485
Graphics	Qualcomm® Adreno™ 643L	Other Interfaces	1x I²C, SPI, 2x Digital In, 2x Digital Out speaker out
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	Power Supply	9 V _{DC} ÷ 32 V _{DC}
Mass Storage	eMMC 5.1 drive soldered on-board, up to 64GB (boot device) SD 4-bit interface (boot device) µSD Card Holder	Operating System	Clea OS (Yocto)
Networking	1x Gigabit Ethernet interfaces	CAN Bus	1x CAN-FD
		Operating Temperature	0 - 60 °C
		Dimensions	270.1 x 187.1 x 51.7 mm

Modular Vision 10.1 QCS6490

High end 10.1 inch HMI based on Qualcomm® Dragonwing QCS6490

BLOCK DIAGRAM



Information subject to change. Please visit www.seco.seco.com to find the latest version of this datasheet

014.25

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

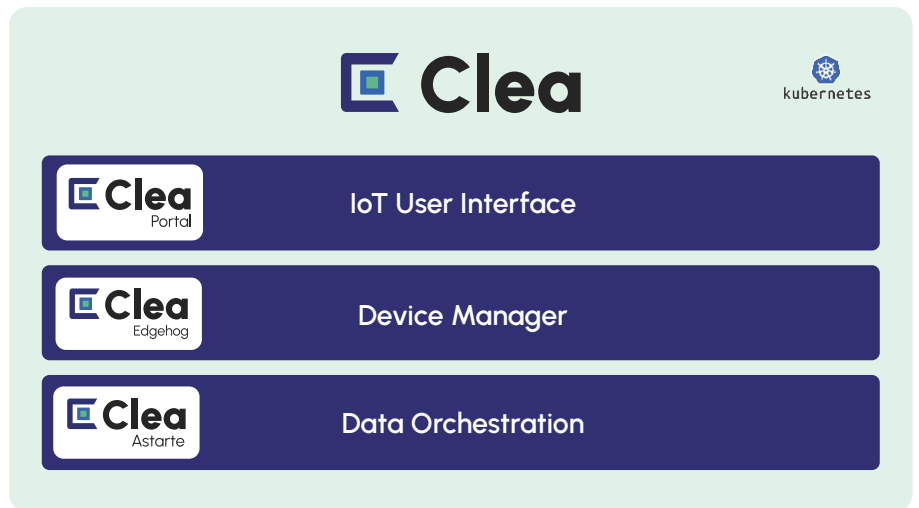
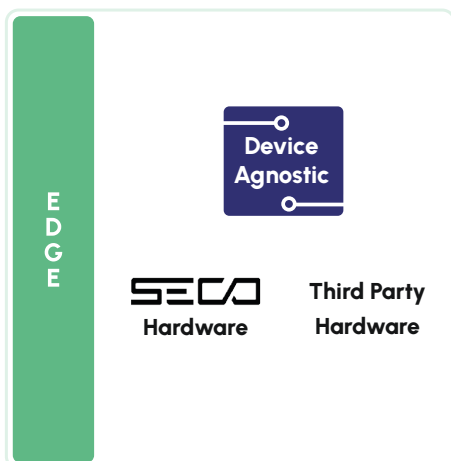
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

