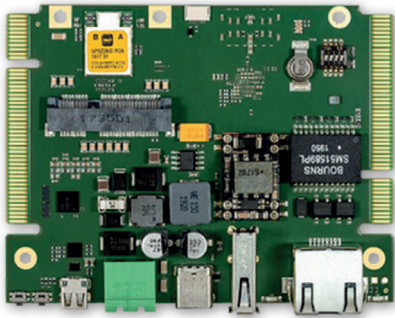




SBC-SBCSOM-MX8M-Mini-Nano

Modular Single Board Computer with i.MX 8M Mini/Nano

Modularly expandable ready to use Single Board Computer (SBC)



HIGHLIGHTS



CPU
NXP i.MX 8M Mini Family



CONNECTIVITY
Wifi/BT, 1x GbE, up to 2x USB 2.0, HDMI®, Mini PCIe



GRAPHICS
GC320 2D accelerator + GCNanoUltra 3D accelerator



MEMORY
Soldered on Board LPDDR4-3200 memory, up to 8 GB



MAIN FIELDS OF APPLICATION



Medical



Industrial Automation



Smart Devices



Digital Signage

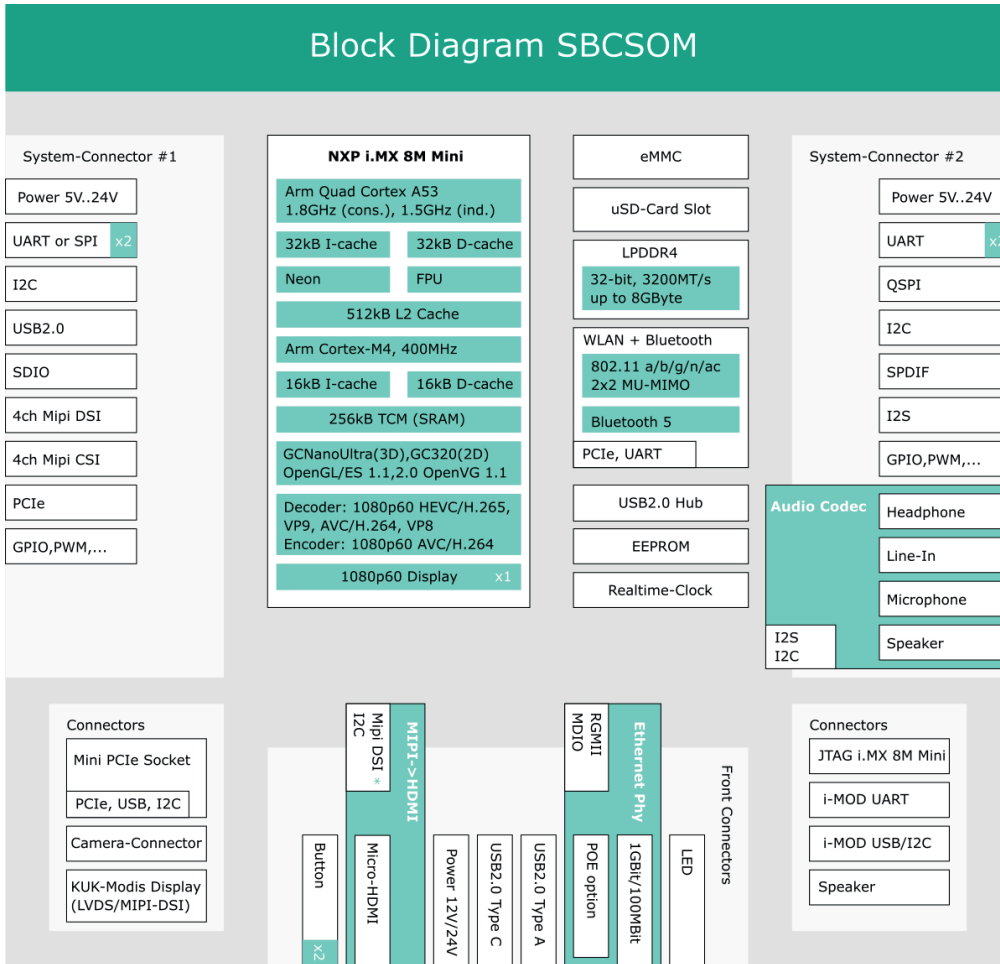
FEATURES

Processor	NXP i.MX 8M Mini Family based on Arm® Cortex®-A53 cores + general purpose Cortex®-M4 400MHz processor: i.MX 8M Mini Quad – Full featured, 4x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Dual – Full featured, 2x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Solo – Full featured, 1x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Quad Lite Full featured, 4x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Dual Lite – Full featured, 2x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Solo Lite – Full featured, 1x Cortex®-A53 cores up to 1.8GHz	Audio	Audio Codec
	Memory	up to 8 GB 32 bit LPDDR4	Other Interfaces
Graphics	GC320 2D accelerator + GCNanoUltra 3D accelerator Embedded VPU (not for Lite processors), able to offer: VP9, HEVC/H.265, AVC/H.264, VP8 HW Decoding AVC/H.264, VP8 HW encoding OpenGL ES 2.0, OpenVG 1.1 support	Power Supply	12 ÷ 24 V _{DC}
Video Interfaces	LVDS Single/Dual Channel connector HDMI®	Operating System	Windows 10 IoT Linux Debian Linux Yocto Android
Video Resolution	Up to 1920x1080p60, 24bpp	Operating Temperature*	-40°C ÷ 85°C (Industrial), -25°C ÷ 85°C (Extended Consumer), 0 ÷ 70°C (Consumer)
Mass Storage	Onboard 4 Bit wide µSD Card Socket or onboard 8 Bit wide eMMC, eMMC	Dimensions	95.0 x 73.0 x 20.0 mm
Networking	1x GbEthernet interfaces WLAN 2.4GHz/5Ghz, 802.11 a/b/g/n/ac 2x2 MU-MIMO / BT 5.0 mPCIe socket for modems	*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.	
USB	1x USB 2.0 Type-C 1x USB 2.0 Type-A		

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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

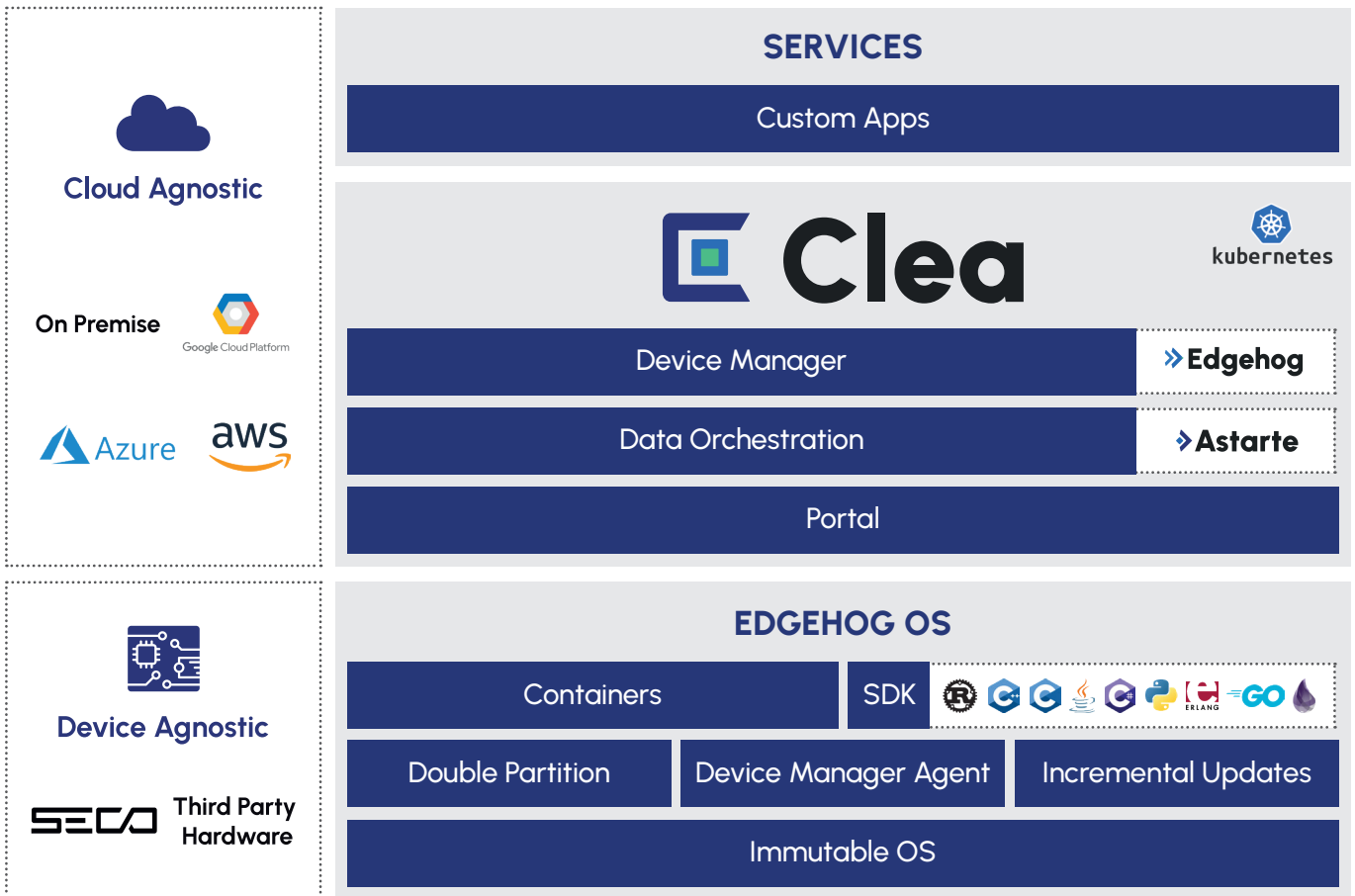
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

