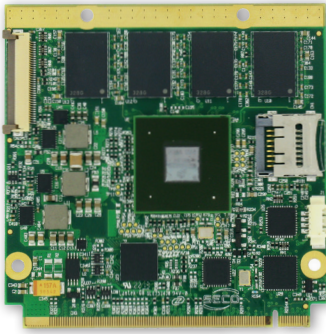




SOM-Q7-MX6

Qseven® standard module with NXP i.MX 6 Processor

Optimal balance of performance and power



HIGHLIGHTS

CPU Single-, Dual- and Quad- Core (Arm® Cortex® -A9 Cores)	CONNECTIVITY 2x serial ports; CAN port
GRAPHICS 2D/3D dedicated graphics processors	MEMORY up to 4GB DDR3L on-board

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



FEATURES

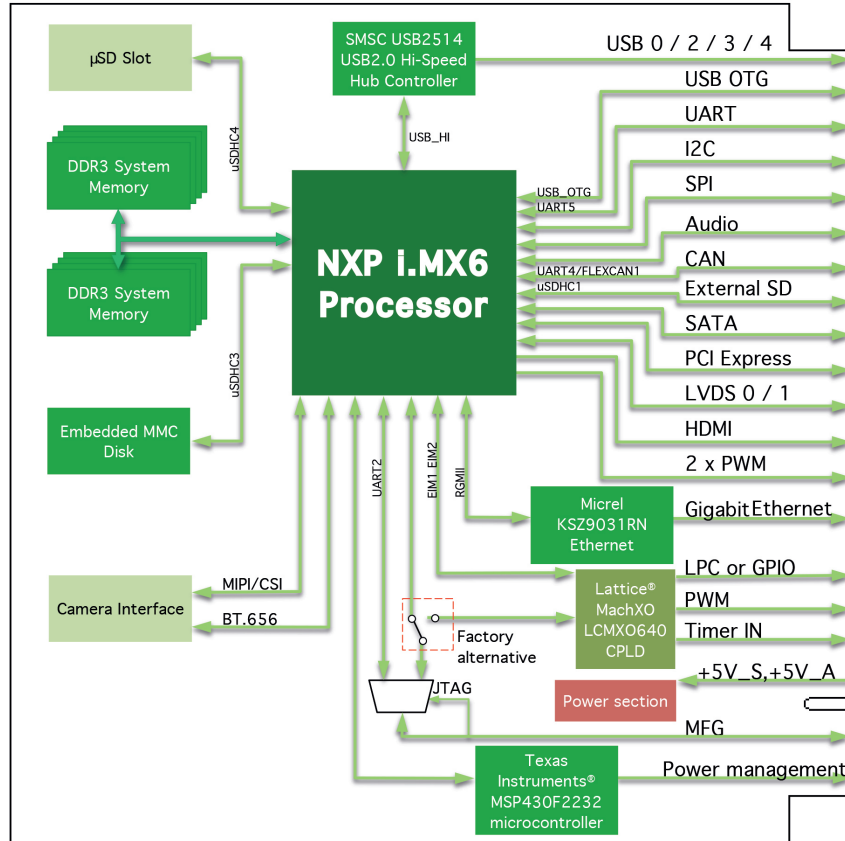
Processor	NXP i.MX 6 Family, based on Arm® CORTEX-A9 processors i.MX6S Solo - Single core up to 1GHz i.MX6DL Dual Lite - Dual core up to 1GHz per core i.MX6D Dual - Dual core up to 1GHz per core i.MX6DP DualPlus - Dual core up to 1GHz per core i.MX6Q Quad - Quad core up to 1GHz per core	USB	1 x USB OTG interface 4 x USB 2.0 Host interfaces
Max Cores	4	PCI-e	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)
Memory	Up to 4GB DDR3L on-board (up to 2GB with i.MX6S)	Audio	AC'97 Audio interface I2S
Graphics	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES 2.0 3D Dedicated Vector Graphics accelerator supports OpenVG™ TM (only i.MX6D, i.MX6DP and i.MX6Q) Enhanced 2D and 3D graphics with i.MX6DP Supports up to 3 independent displays with i.MX6D, i.MX6DP and i.MX6Q Supports 2 independent displays with i.MX6DL and i.MX6S	Serial Ports	2 x Serial ports (TTL interface) CAN port interface
Video Interfaces	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI® Interface 1.4 Video Input Port / Camera Connector	Other Interfaces	I2C Bus LPC Bus SM Bus Power Management Signals
Video Resolution	LVDS, up to 1920x1200 HDMI®, up to 1080p	Power Supply	+5V _{DC} ± 5%
Mass Storage	On-board eMMC drive, up to 32 GB SD / MMC / SDIO interface 1 x µSD Card Slot on-board 1 x External SATA Channel (only available with i.MX6D and i.MX6Q)	Operating System	Linux Yocto Microsoft® Windows Embedded Compact 7
Networking	Gigabit Ethernet interface	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
		Dimensions	70 x 70 mm (2.76" x 2.76")

*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.

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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

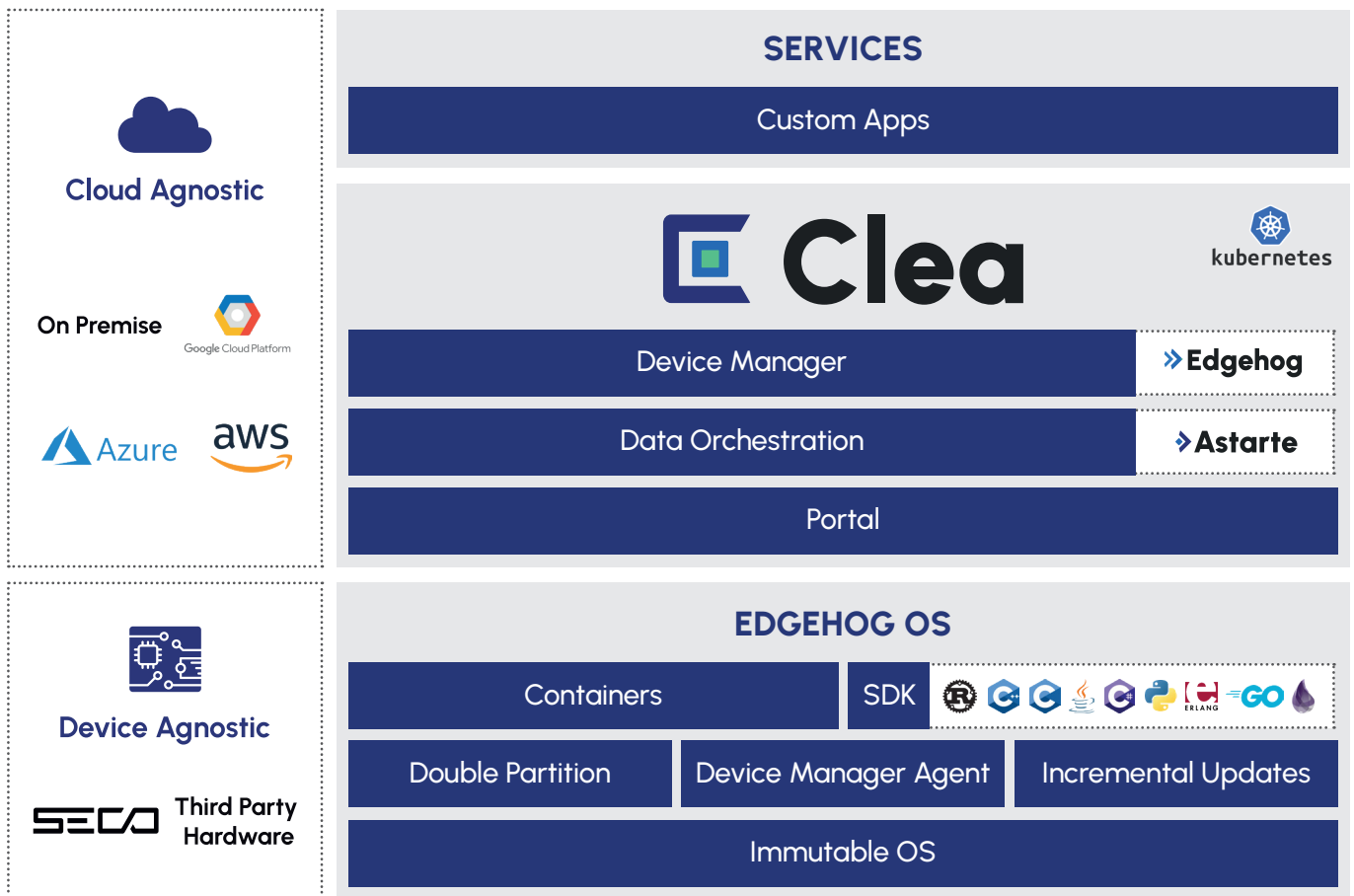
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

