



SBC-3.5-MX8M

3.5" SBC with NXP i.MX 8M Applications Processors

A new generation of cost effective solutions for multimedia and industrial IoT applications



HIGHLIGHTS



CPU
NXP i.MX 8M Family



CONNECTIVITY
WiFi ac/a/b/g/n + BT LE 5; M.2 WWAN slot;
microSIM slot for M.2 modem



GRAPHICS
Vivante GC7000Lite GPU



MEMORY
Soldered down DDR3L memory

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Medical

Industrial
Automation

Smart Devices



Digital Signage

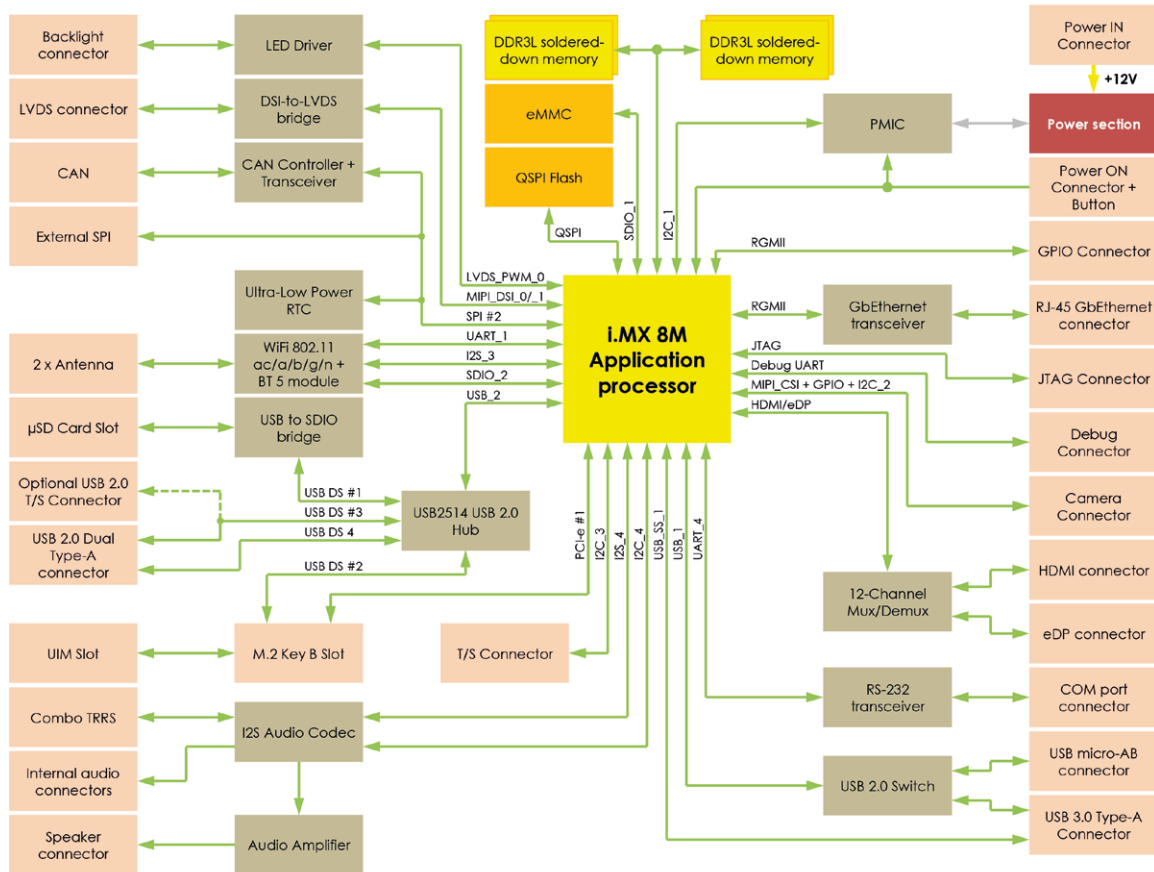
FEATURES

Processor	NXP i.MX 8M Family, based on Arm® Cortex®-A53 MPCore + Cortex-M4 core platform: i.MX 8M Quad - Quad core up to 1.5GHz i.MX 8M QuadLite - Quad core up to 1.5 GHz per core i.MX 8M Dual - Dual core up to 1.5 GHz per core	Audio	I2S Audio Codec Speaker + Microphone + Earphone interfaces on internal pin headers Line Out + Mic In combo TRRS audio jack Optional 10W for channel amplified Speaker connector
Memory	Soldered down DDR3L memory, up to 2GB	Serial Ports	RS-232 Serial port connector Debug UART on internal pin header CAN Port
Graphics	Vivante GC7000Lite GPU, supporting OpenGL ES 1.1 / 2.0 / 3.0 / 3.1, Open CL 1.2 and Vulkan Dedicated VPU (not for QuadLite), supporting 4Kp60 HEVC/H.265 main and main 10 decoder, 4Kp60 VP9 decoder, 4Kp30 AVC/H.264 decoder, 1080p60 MPEG-2, MPEG-4p2, VC-1, VP8, RV9, AVS, MJPEG, H.263 decoder Dual Display support	Other Interfaces	microSIM slot for M.2 modems SPI interface I2C Touch Screen dedicated connector 8 x GPIOs connector SPI Connector
Video Interfaces	embedded Display Port 1.4 connector (switched with HDMI®) Optional LVDS interface Optional HDMI® 1.4 / 2.0a interface (switched with eDP) 4-lane MIPI CSI Camera interface	Power Supply	+12V _{DC} Coin cell battery for RTC
Video Resolution	HDMI®, eDP: up to 4096x2160 LVDS: up to 1920x1080	Operating System	Linux Android
Mass Storage	Optional eMMC drive on-board, up to 16GB microSD Card slot	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (industrial version, only boards without optional WiFi module)
Networking	Optional WiFi ac/a/b/g/n + BT 5 module with onboard U.FL antenna connectors Gigabit Ethernet port M.2 Socket 2 2260 / 3042 Key B slot for WWAN modules (modem)	Dimensions	101.6 x 147 mm (4" x 5.78")
USB	USB Device on USB 2.0 micro-AB connector (interface shared with USB 3.0 port) USB 3.0 Type-A connector (interface shared with USB 2.0 micro-AB) USB 2.0 Dual Type-A connector Optional USB 2.0 internal T/S connector (excludes one USB 2.0 Type-A interface)	*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

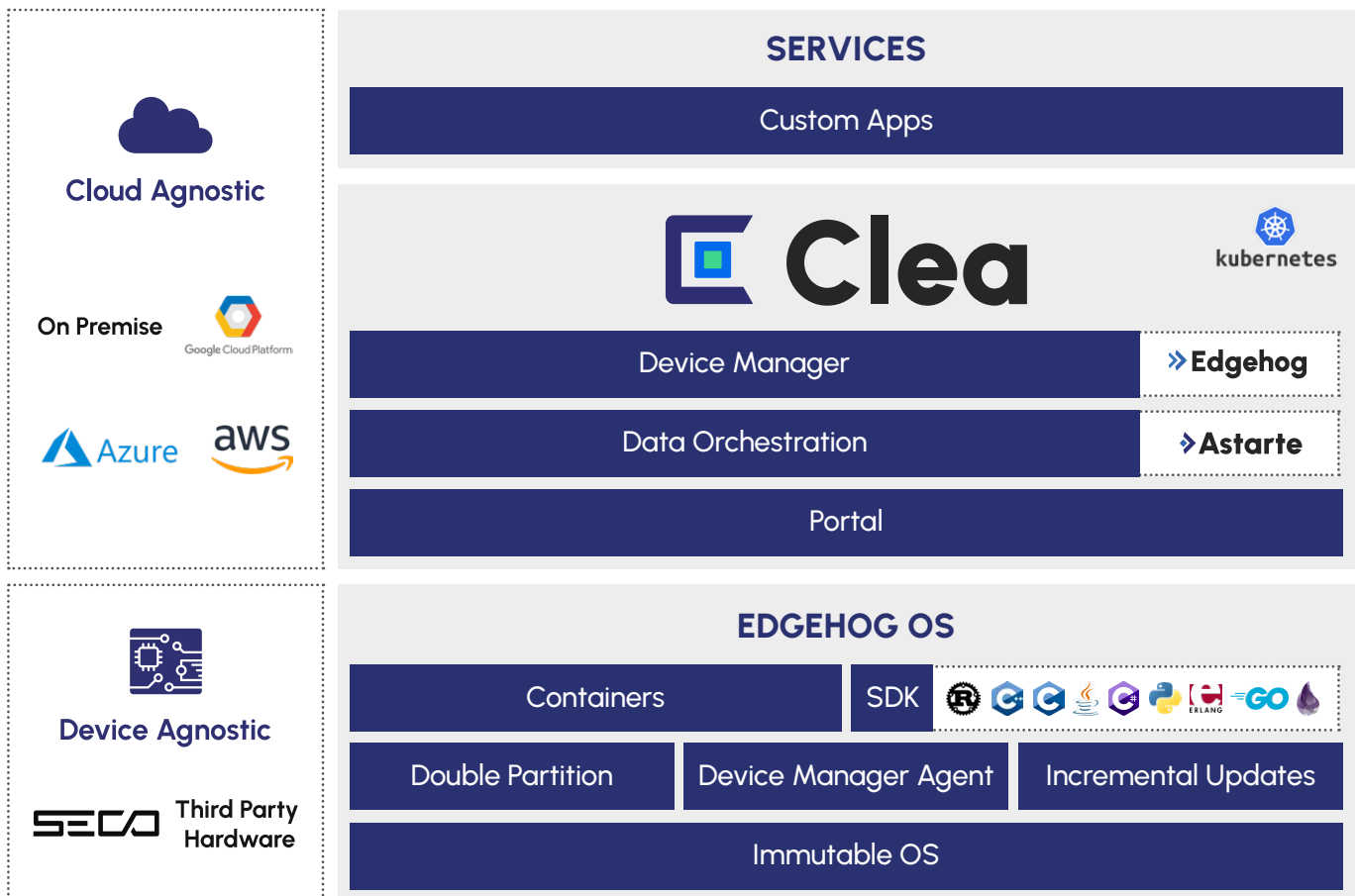
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.



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EDGEHOG OS



CLEA DOCS

