

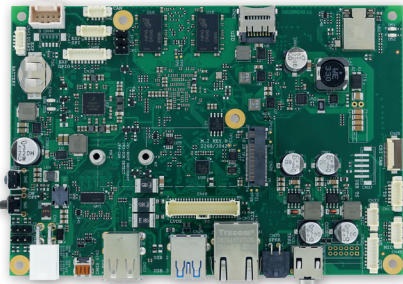


## SBC-3.5-MX8M

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



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



#### HIGHLIGHTS

<b>CPU</b> NXP i.MX 8M Family	<b>CONNECTIVITY</b> WiFi ac/a/b/g/n + BT LE 5; M.2 WWAN slot; microSIM slot for M.2 modem
<b>GRAPHICS</b> Vivante GC7000Lite GPU	<b>MEMORY</b> Soldered down DDR3L memory

Available in Industrial Temperature Range



#### MAIN FIELDS OF APPLICATION



Medical



Industrial Automation



Smart Devices



Digital Signage

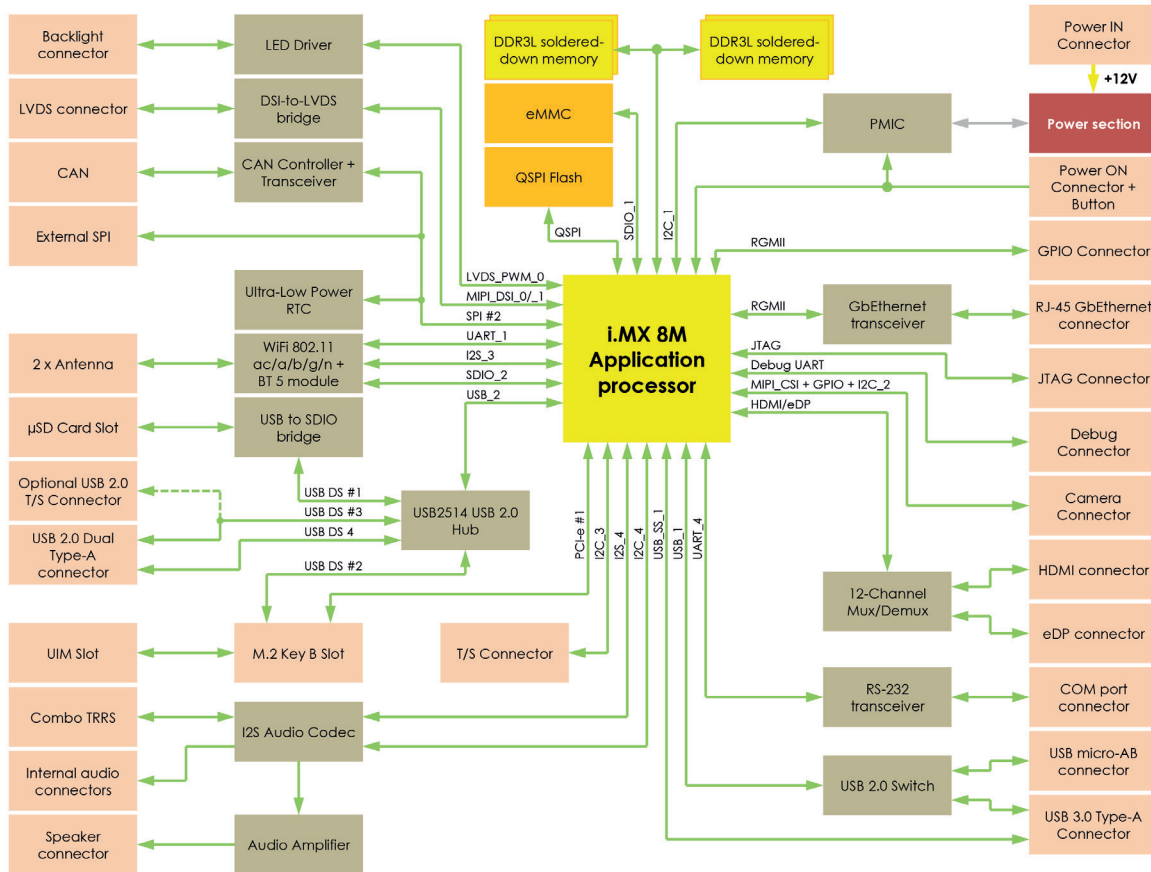
#### FEATURES

<b>Processor</b>	NXP i.MX 8M Family, based on Arm® Cortex®-A53 MPCore + Cortex-M4 core platform: <b>i.MX 8M Quad</b> - Quad core up to 1.5GHz <b>i.MX 8M QuadLite</b> - Quad core up to 1.5 GHz per core <b>i.MX 8M Dual</b> - Dual core up to 1.5 GHz per core	<b>Audio</b>	I2S Audio Codec Speaker + Microphone + Earphone interfaces on internal pin headers Line Out + Mic In combo TRRS audio jack Optional IOW for channel amplified Speaker connector
<b>Memory</b>	Soldered down DDR3L memory, up to 2GB	<b>Serial Ports</b>	RS-232 Serial port connector Debug UART on internal pin header CAN Port
<b>Graphics</b>	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	<b>Other Interfaces</b>	microSIM slot for M.2 modems SPI interface I2C Touch Screen dedicated connector 8 x GPIOs connector SPI Connector
<b>Video Interfaces</b>	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	<b>Power Supply</b>	+12V <sub>DC</sub> Coin cell battery for RTC
<b>Video Resolution</b>	HDMI®, eDP: up to 4096x2160 LVDS: up to 1920x1080	<b>Operating System</b>	Linux Android
<b>Mass Storage</b>	Optional eMMC drive on-board, up to 16GB microSD Card slot	<b>Operating Temperature*</b>	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (industrial version, only boards without optional WiFi module)
<b>Networking</b>	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)	<b>Dimensions</b>	101.6 x 147 mm (4" x 5.78")
<b>USB</b>	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

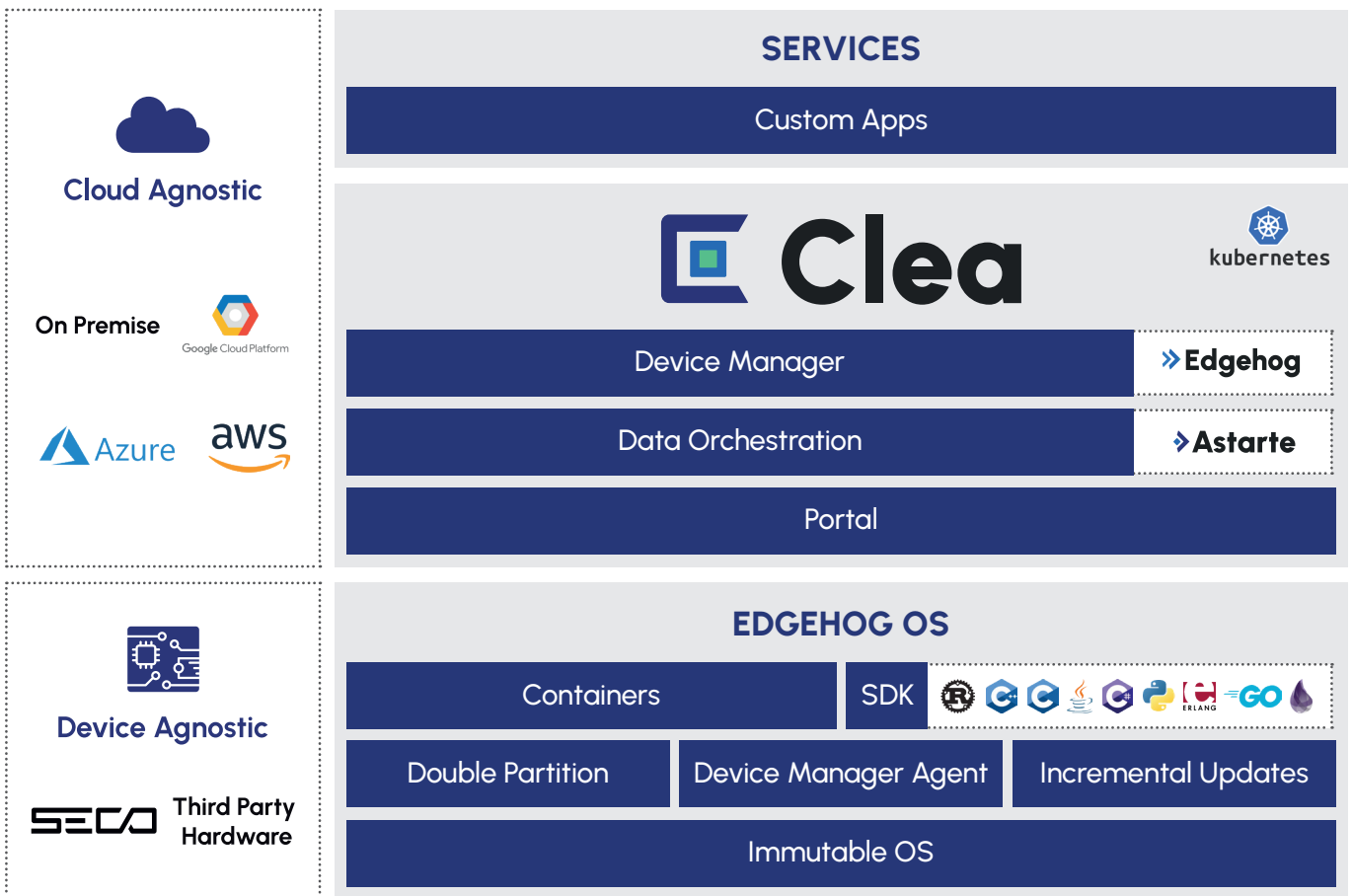
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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.



Scan to know more about our solution

EDGEHOG OS



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