



Titan 210 MX8M

Fanless embedded computer based on NXP i.MX 8M Applications Processors

Multicore processing and flexible connectivity for multimedia and industrial IoT applications



HIGHLIGHTS



CPU
NXP i.MX 8M Family



CONNECTIVITY

1x GbE; 1x USB3.0; 2x USB2.0; 1x RS-232; Optional on-board WiFi+BLTE; Optional WWAN add-on module



GRAPHICS
Vivante GC7000Lite GPU



MEMORY

Up to 2GB DDR3L on-board memory



MAIN FIELDS OF APPLICATION



Medical



Industrial
Automation



Digital Signage

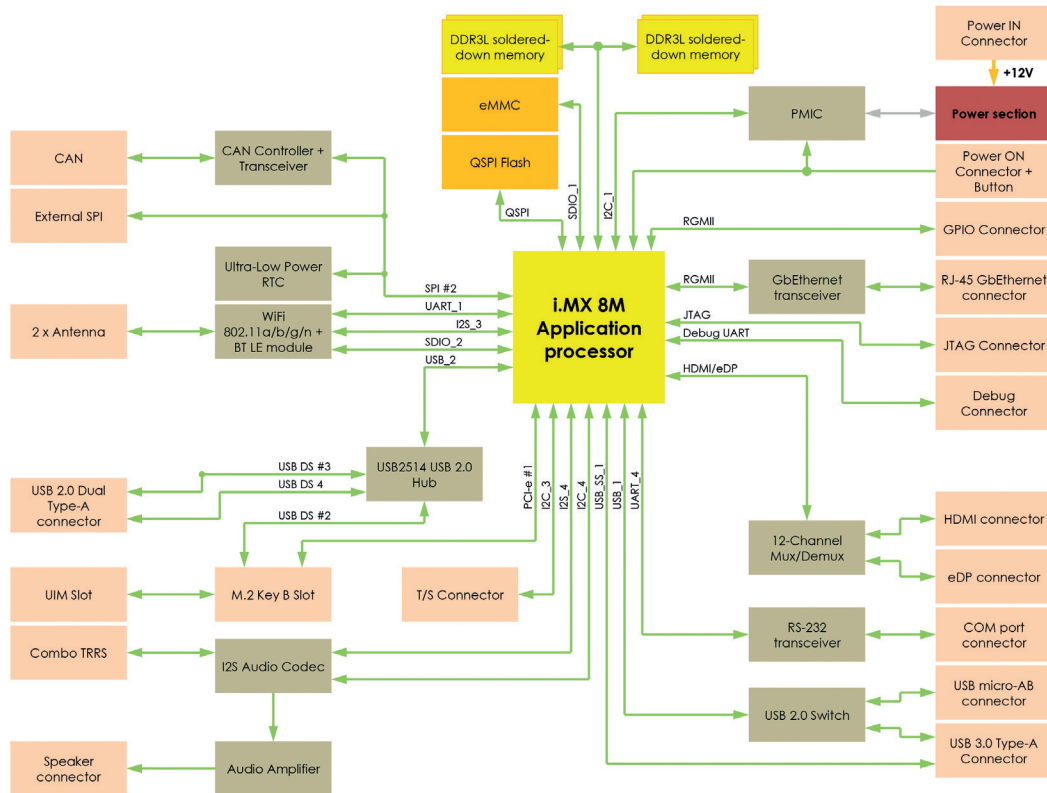
FEATURES

Processor	i.MX 8M Quad, Quad A53-core up to 1.5GHz, with GPU and VPU i.MX 8M QuadLite, Quad A53-core up to 1.5GHz, with GPU only i.MX 8M Dual, Dual A53-core up to 1.5GHz, with GPU and VPU	Audio	Line Out + Mic In combo TRRS audio jack Optional Speaker connector, 10W per channel amplified Optional 2x 12 poles terminal block connectors with the following I/O: <ul style="list-style-type: none"> 1x CAN 8x GPIOs 1x SPI 1x I2C 1x 5V 1x 3.3V 1x 12V 3x GND
System Memory	32-bit soldered down DDR3L memory, up to 2GB	Other Interfaces	Power ON Button with integrated LED microSIM slot soldered on-board for the Modem Coin cell battery holder for RTC Optional 4x SMA connectors for external WiFi / WWAN antennas
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	Other	Optional VESA 100 bracket accessory Optional DIN standard mounting plate accessory
Video Interfaces	Optional HDMI® 1.4 / 2.0a interface	Power Supply	+12V _{DC} , Mini-Fit Power connector
Video Resolution	Up to 4K	Operating System	Linux Android (planned)
Mass Storage	Optional eMMC 5.0 drive on-board, up to 16GB	Operating Temperature*	0°C ÷ +50°C
Networking	1x Gigabit Ethernet RJ45 connector Optional on-board WiFi (802.11 ac / a / b / g / n) +BT 5.0 module, external antennas* M.2 Socket 2 Key B Slot for optional accessory M.2 Modem, external antennas* *Certification upon request	Dimensions	181 x 109 x 75 mm
USB	2 x USB 2.0 on Dual Type-A socket 1 x USB 3.0 Type-A socket 1 x USB 2.0 micro-AB connector (interface shared with USB 3.0 port)	*Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
Serial Ports	1 x RS-232 Serial port on DB9-M connector		

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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

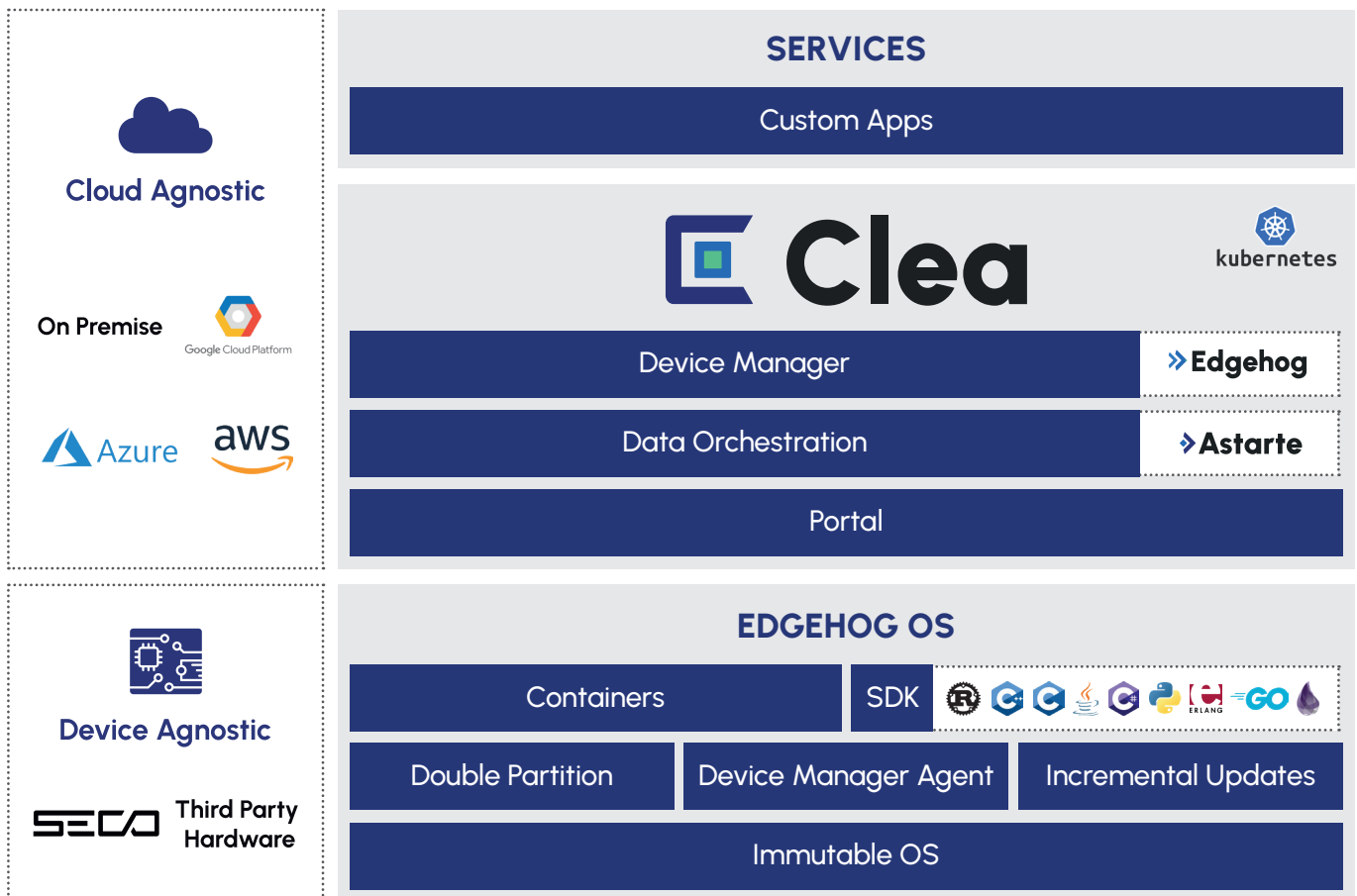
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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



Mouser Electronics

Authorized Distributor

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