FANLESS EMBEDDED COMPUTERS

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

GOLD PARTNER NXP

Linux | ANDROID | HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

MAIN FIELDS OF APPLICATION

Medical

Industrial Automation

Digital Signage
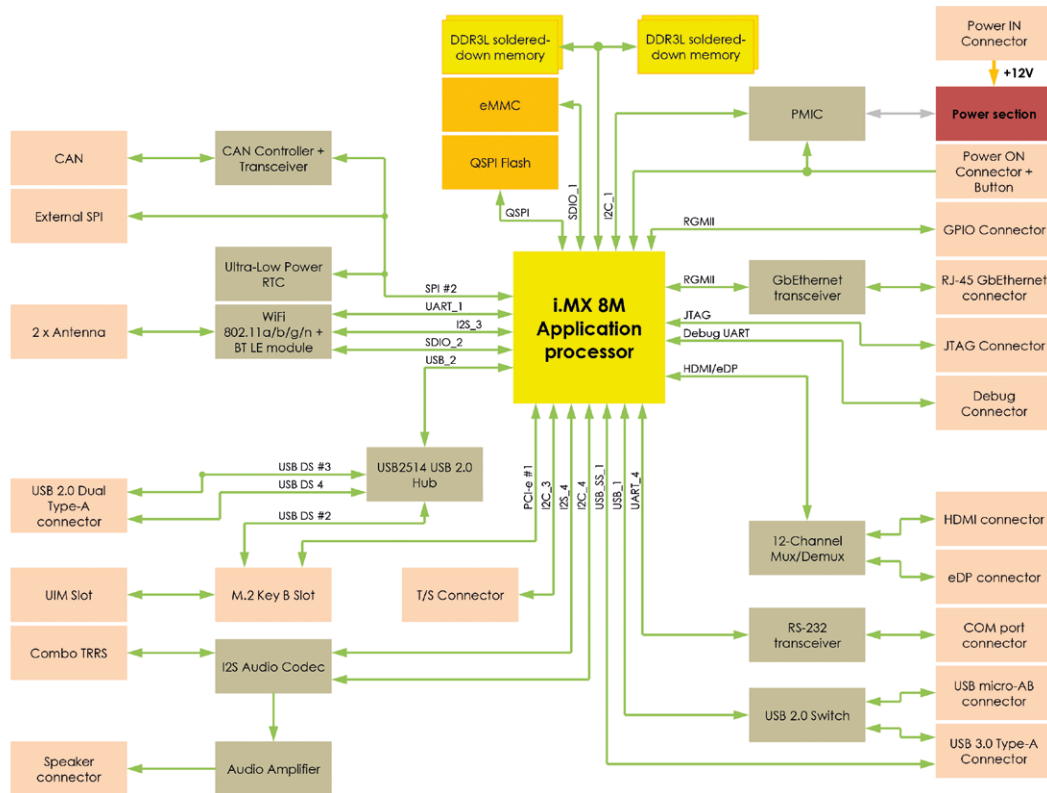
FEATURES

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	
System Memory	32-bit soldered down DDR3L memory, up to 2GB		Other Interfacesà	Optional 2x 12 poles terminal block connectors with the following I/O: · 1x CAN · 8x GPIOs · 1x SPI · 1x I2C · 1x 5V · 1x 3.3V · 1x 12V · 3x GND 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				
Video Interfaces	Optional HDMI® 1.4 / 2.0a interface				
Video Resolution	Up to 4K		Other	Optional VESA 100 bracket accessory Optional DIN standard mounting plate accessory	
Mass Storage	Optional eMMC 5.0 drive on-board, up to 16GB		Power Supply	+12V$_{DC}$, Mini-Fit Power connector	
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		Operating System	Linux Android (planned)	
			Operating Temperature*	0°C ÷ +50°C	
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)		Dimensions	181 x 109 x 75 mm	
Serial Ports	1 x RS-232 Serial port on DB9-M connector				

*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.

SECO

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.

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.

DATA ORCHESTRATION

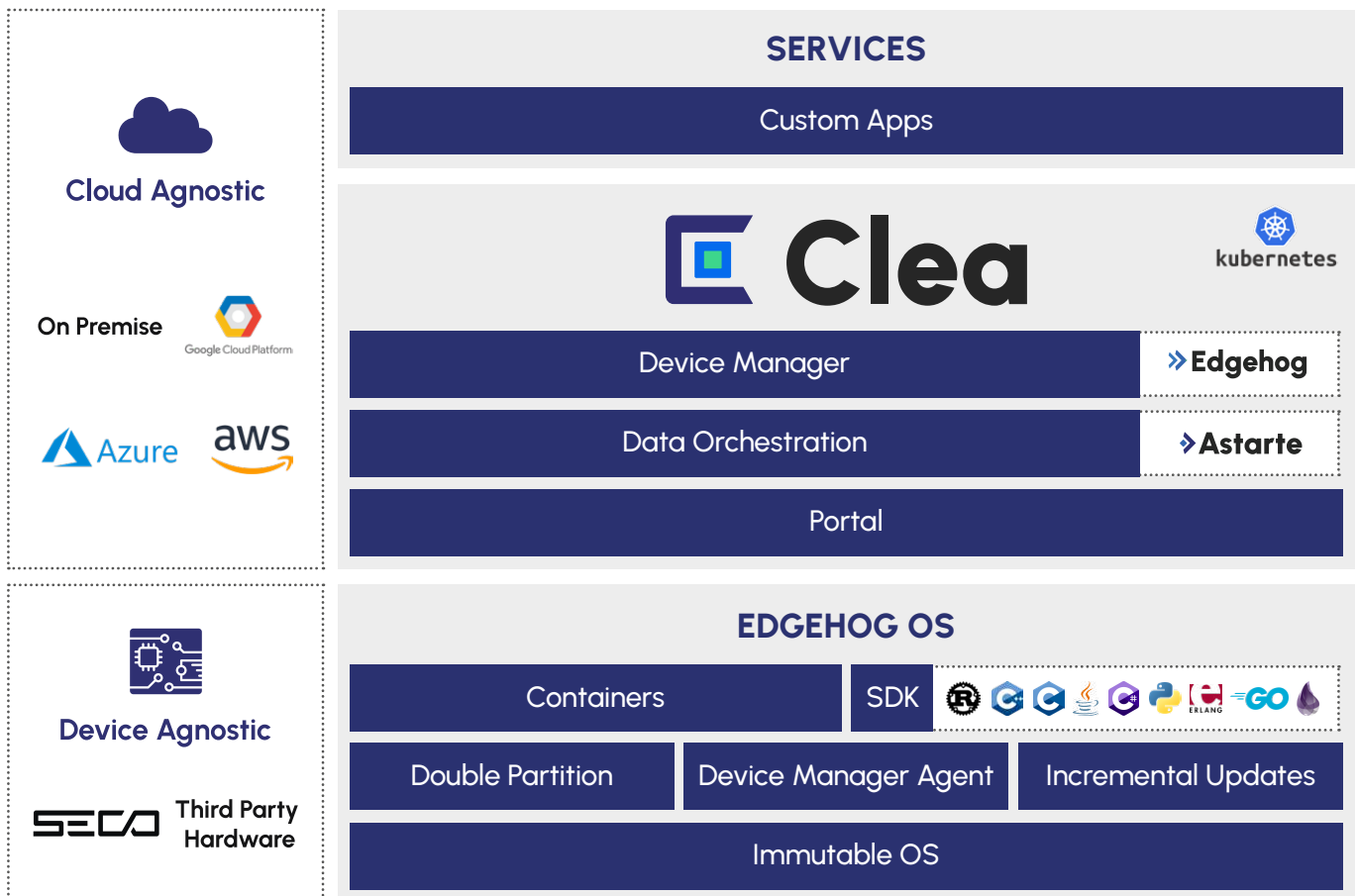Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.

Cloud Agnostic

On Premise
Google Cloud Platform

Azure   aws

Device Agnostic

SECO   Third Party Hardware

SERVICES

Custom Apps

Clea   kubernetes

Device Manager   » Edgehog

Data Orchestration   » Astarte

Portal

EDGEHOG OS

Containers   SDK

Double Partition   Device Manager Agent   Incremental Updates

Immutable OS

Scan to know more about our solution

EDGEHOG OS   CLEA DOCS

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