

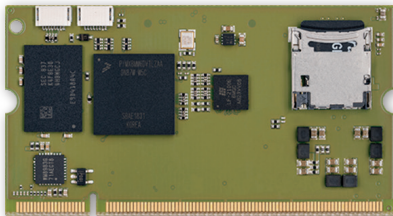
TRIZEPS SODIMM SOM



SOM-Trizeps-VIII-MX8M-Mini

SODIMM-200 CPU-Module with NXP i.MX 8M Mini Applications Processors

High performance for high-level video, voice and audio processing combined with low power consumption thanks to 14nm LPC FinFET technology



HIGHLIGHTS



CPU
NXP i.MX 8M Mini Applications Processors



CONNECTIVITY
1x Gigabit Ethernet, WiFi/BT, USB 2.0, LVDS



GRAPHICS
GC320 2D accelerator + GCNanoUltra 3D accelerator



MEMORY
Up to 8 GB LPDDR4-3200 RAM memory, 32 Bit

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Transportation



Industrial Automation



Smart Devices



Smart Buildings & Smart Cities



Digital Signage



Energy & Utilities

FEATURES

<p>Processor</p>	<p>NXP i.MX 8M Mini Family based on Arm® Cortex®-A53 cores + general purpose Cortex®-M4 400MHz processor:</p> <ul style="list-style-type: none"> i.MX 8M Mini Quad - Full featured, 4x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Dual - Full featured, 2x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Solo - Full featured, 1x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Quad Lite - 4x Cortex®-A53 cores up to 1.8GHz, no VPU i.MX 8M Mini Dual Lite - 2x Cortex®-A53 cores up to 1.8GHz, no VPU i.MX 8M Mini Solo Lite - 1x Cortex®-A53 cores up to 1.8GHz, no VPU <p>Optional: Programmable FPGA with up to 4300 LUTs to convert parallel display/camera/data-streams to MIPI DSI/CSI</p>	<p>Mass Storage Onboard 4 Bit wide μSD Card Socket or onboard 8 Bit wide eMMC</p> <p>Networking 1x GB Ethernet RGMII PHY and SIOP interface Optional: WiFi 802.11 a/b/g/n/ac 2x2 MU-MIMO / BT 4.2/5.0</p> <p>USB 2x USB 2.0 OTG</p> <p>PCI-e PCIe</p> <p>Audio Audio Codec: Stereo Headphone output, Mono Speaker output, Stereo Line-In, Microphone input</p> <p>Serial Ports 4x UART</p> <p>Other Interfaces 4 Bit wide SDIO SPDIF In/Out I2S Multichannel Serial-Audio-Interface 2x I2C SPI QSPI GPIOs PWM MIPI CSI (4 channel)</p> <p>Power Supply 3.3 V_{DC}</p> <p>Operating System Linux Yocto Linux Debian Android Windows 10 IoT</p>
<p>Memory</p>	<p>Soldered down LPDDR4-3200 memory up to 8GB, 32-bit interface</p>	
<p>Graphics</p>	<p>i.MX 8M Mini Family of processors: Vivante GC320 2D accelerator + GCNanoUltra 3D accelerator OpenGL ES 2.0, OpenVG 1.1 support</p>	
<p>Video Interfaces</p>	<p>MIPI display (4 channel) / Single- or Dual-LVDS, LCD 24 Bit RGB</p>	
<p>Video Resolution</p>	<p>LVDS, MIPI: Up to 1920 x 1080p @60</p>	

SOM-Trizeps-VIII-MX8M-Mini

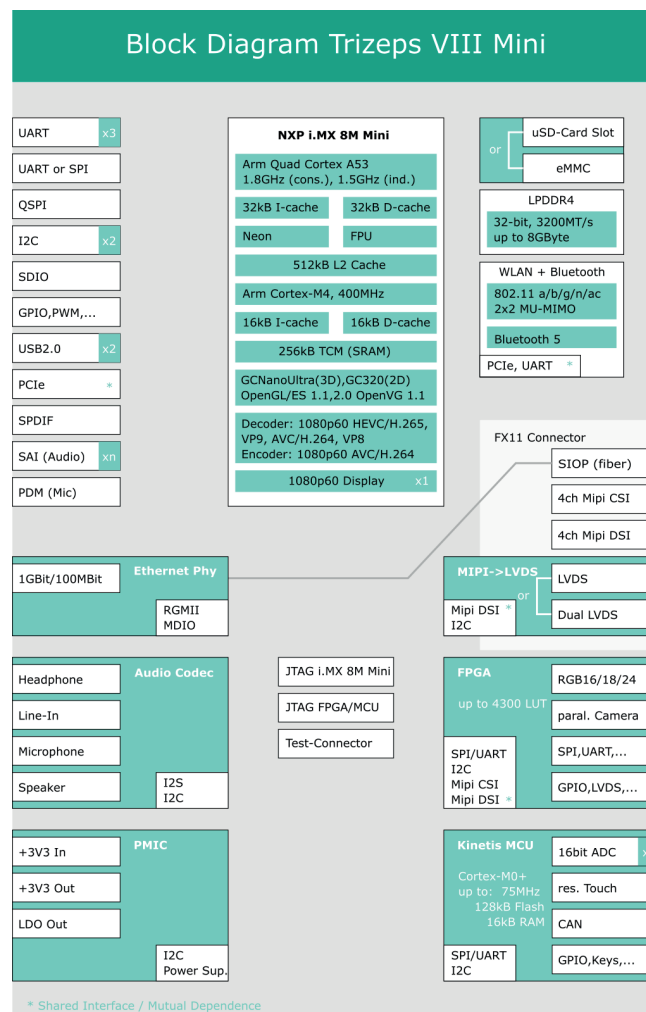
SODIMM-200 CPU-Module with NXP i.MX 8M Mini Applications Processors

FEATURES

Operating Temperature*	0 ÷ 70°C (Consumer) -25 ÷ 85°C (Extended Consumer) -40 ÷ 85°C (Industrial)
Dimensions	67.6 x 36.7 x 6.4 mm

*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.

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

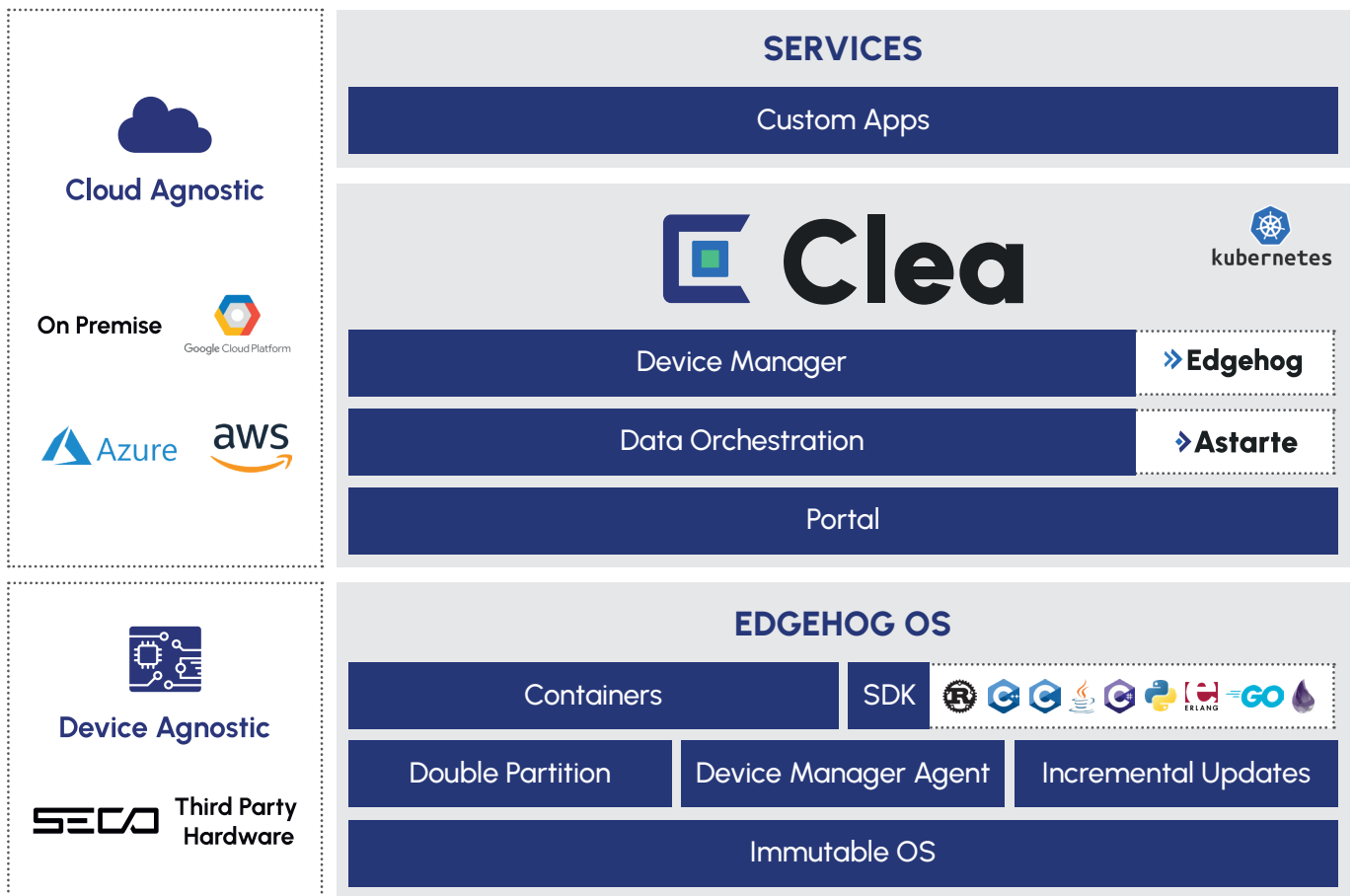
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

