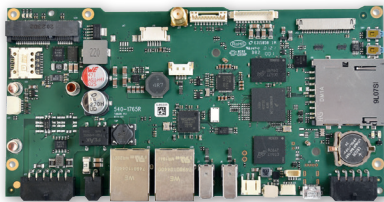




## SBC-TANARO-MX8M-Mini

Single Board Computer (SBC) based on NXP i.MX8M Mini processor

### High performance with low power consumption for edge computing with integrated connectivity and multimedia interface



#### HIGHLIGHTS

<b>CPU</b> NXP i.MX 8M Mini Family	<b>CONNECTIVITY</b> Wifi/BT, 1x GbE, 1x 100MbE, up to 3x USB, 2x RS232, RS485, CAN
<b>GRAPHICS</b> GC320 2D accelerator + GCNanoUltra 3D accelerator	<b>MEMORY</b> Soldered on Board LPDDR4 memory



#### MAIN FIELDS OF APPLICATION



Medical



Industrial Automation



Smart Devices



Digital Signage

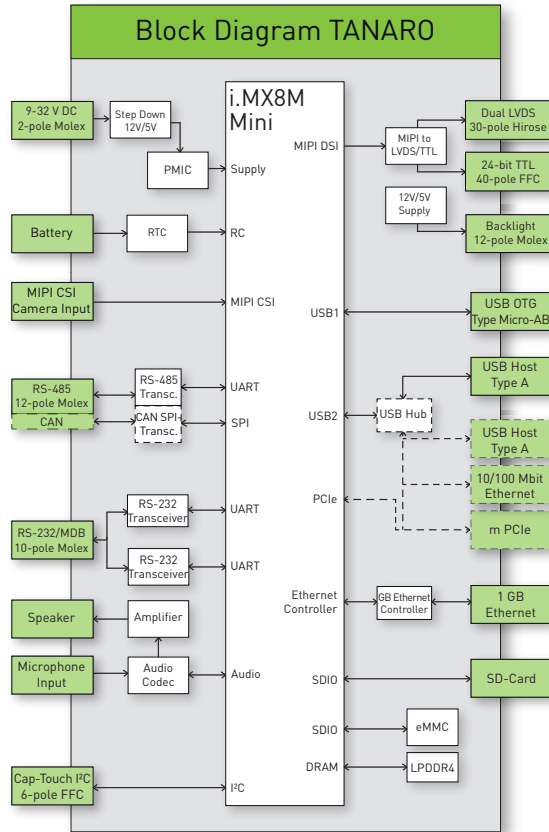
#### FEATURES

<b>Processor</b>	NXP i.MX 8M Mini Family based on Arm® Cortex®-A53 cores + general purpose Cortex®-M4 400MHz processor: <ul style="list-style-type: none"> <li>i.MX 8M Mini Quad – Full featured, 4x Cortex®-A53 cores up to 1.8GHz</li> <li>i.MX 8M Mini Dual – Full featured, 2x Cortex®-A53 cores up to 1.8GHz</li> <li>i.MX 8M Mini Solo – Full featured, 1x Cortex®-A53 cores up to 1.8GHz</li> <li>i.MX 8M Mini Quad Lite Full featured, 4x Cortex®-A53 cores up to 1.8GHz</li> <li>i.MX 8M Mini Dual Lite – Full featured, 2x Cortex®-A53 cores up to 1.8GHz</li> <li>i.MX 8M Mini Solo Lite – Full featured, 1x Cortex®-A53 cores up to 1.8GHz</li> </ul>	<b>Audio</b>	1x speaker (connector), 1 W RMS (8Ω) parallel to internal speaker Digital Mic In connector (2x PDM inputs)
<b>Memory</b>	1 GB 32 bit LPDDR4	<b>Serial Ports</b>	2x RS-232, RS-485
<b>Graphics</b>	GC320 2D accelerator + GCNanoUltra 3D accelerator Embedded VPU (not for Lite processors), able to offer: VP9, HEVC/H.265, AVC/H.264, VP8 HW Decoding AVC/H.264, VP8 HW encoding OpenGL ES 2.0, OpenVG 1.1 support	<b>Power Supply</b>	9 ÷ 32 V <sub>DC</sub>
<b>Video Interfaces</b>	LVDS Single/Dual Channel connector MIPI-CSI Camera interface connector	<b>Operating System</b>	Yocto
<b>Video Resolution</b>	Up to 1920x1080p60, 24bpp	<b>CAN Bus</b>	1x CAN (ISO/DIS 11898)
<b>Mass Storage</b>	eMMC: 4 GB MLC SD slot: 4 bit MMC/SDIO/SD/SDHC	<b>Operating Temperature*</b>	0°C ÷ +60°C
<b>Networking</b>	1x GbEthernet interfaces 1x 100MbEthernet shielded single band WiFi 802.11 b/g/n with BT 4.0 mPCIe (half size) socket for modems	<b>Dimensions</b>	159.0 x 18.0 x 80.0 mm
<b>USB</b>	1x USB 2.0 OTG micro-AB up to 2x USB 2.0 Type-A	*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.	

# SBC-TANARO-MX8M-Mini

Single Board Computer (SBC) based on NXP i.MX8M Mini processor

## 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

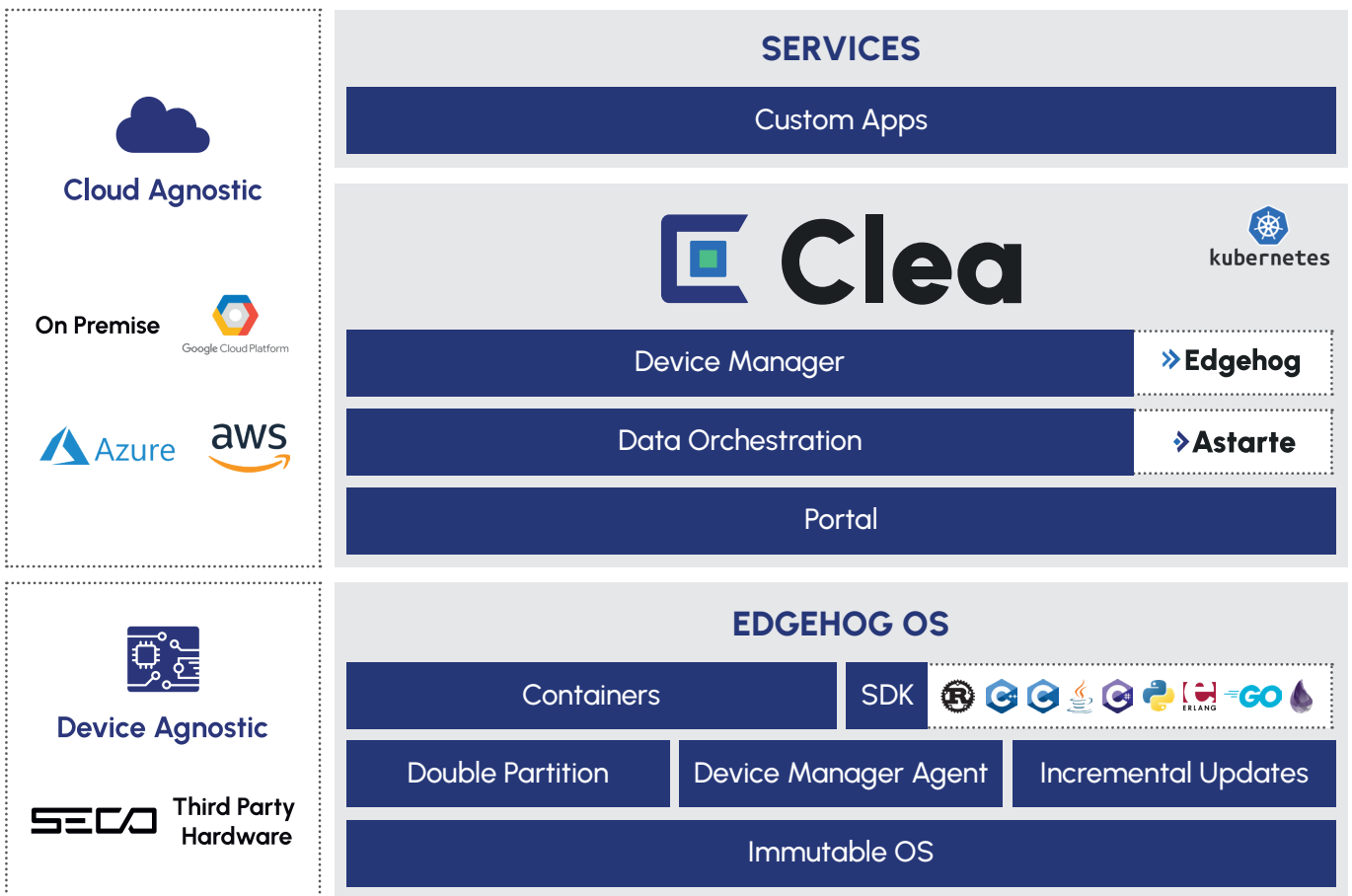
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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

