

# Modular HMI Solutions



## Tanaro Vision 7 RM MX8M-Mini

7.0 inch Rear Mount HMI based on NXP i.MX8M Mini processor

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



Rear mount

### HIGHLIGHTS



**CPU**  
NXP i.MX 8M Mini Family



**GRAPHICS**  
GC320 2D accelerator + GCNanoUltra 3D accelerator



**CONNECTIVITY**  
Wifi/BT, 1x GbE, 1x 100MbE, up to 3x USB, 2x RS232, RS485, CAN



**MEMORY**  
Soldered on Board LPDDR4 memory



**yocto**  
PROJECT

### MAIN FIELDS OF APPLICATION



Medical



Industrial  
Automation



Smart Devices



Digital Signage

### FEATURES

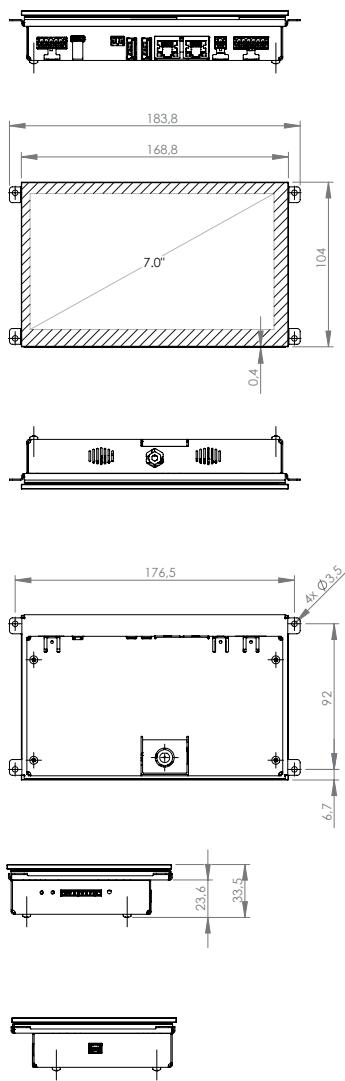
	<p>NXP i.MX 8M Mini Family based on Arm® Cortex®-A53 cores + general purpose Cortex®-M4 400MHz processor: i.MX 8M Mini Quad – Full featured, 4x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Dual – Full featured, 2x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Solo – Full featured, 1x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Quad Lite Full featured, 4x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Dual Lite – Full featured, 2x Cortex®-A53 cores up to 1.8GHz i.MX 8M Mini Solo Lite – Full featured, 1x Cortex®-A53 cores up to 1.8GHz</p>		1x GbE Ethernet interfaces
			1x 100MbE Ethernet
			shielded single band WiFi 802.11 b/g/n with BT 4.0 mPCIe (half size) socket for modems
			1x USB 2.0 OTG micro-AB up to 2x USB 2.0 Type-A
			1x speaker (connector), 1 W RMS (8Ω) parallel to internal speaker Digital Mic In connector (2x PDM inputs)
	1GB 32 bit LPDDR4		2x RS-232, RS-485
	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		9 ÷ 32 V <sub>DC</sub>
	MIPI-CSI Camera interface connector		Yocto
	7.0 inch display, resolution 1024x600, LED lifetime typ. 30k hours typ. 500 cd/m <sup>2</sup> brightness P-Cap (Projected Capacitive touch screen), with 3.0mm toughened glass cover, RAL 9005		1x CAN (ISO/DIS 11898)
	eMMC: 4 GB MLC SD slot: 4 bit MMC/SDIO/SD/SDHC		0°C ÷ +60°C
			183.8 x 104.0 x 33.5 mm

\*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



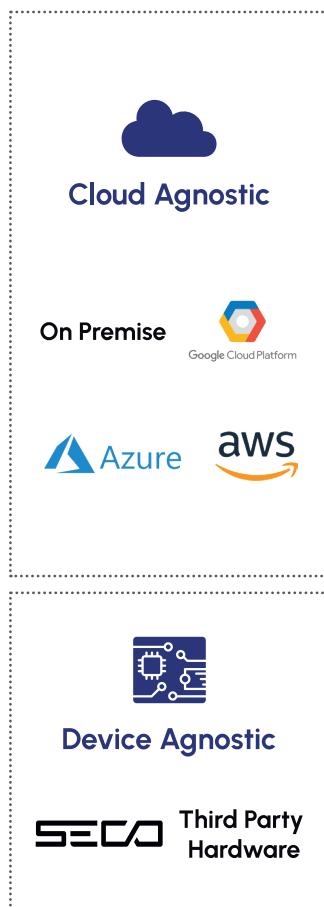
# Streamline and expedite your edge computing implementations

## 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.



Scan to know more about our solution

## 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.

## SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

## EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

Incremental Updates

Immutable OS



EDGEHOG OS

CLEA DOCS

