

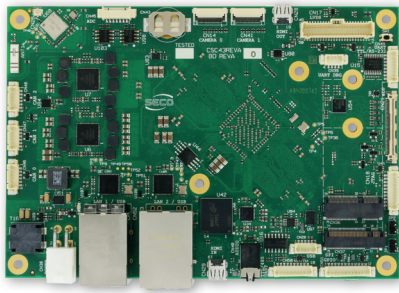


SBC-3.5-MX8

3.5" SBC with NXP i.MX8 Applications Processors



Industrial Arm® solution for IoT edge computing applications



HIGHLIGHTS



CPU
NXP i.MX 8 Family



CONNECTIVITY
2x Gigabit Ethernet interfaces



GRAPHICS
2x Graphics accelerators Vivante GC7000 / XVSX or GC7000Lit/XVSX QuadMax and QuadPlus



MEMORY
Soldered down LPDDR4

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Industrial Automation



Smart Devices



Digital Signage

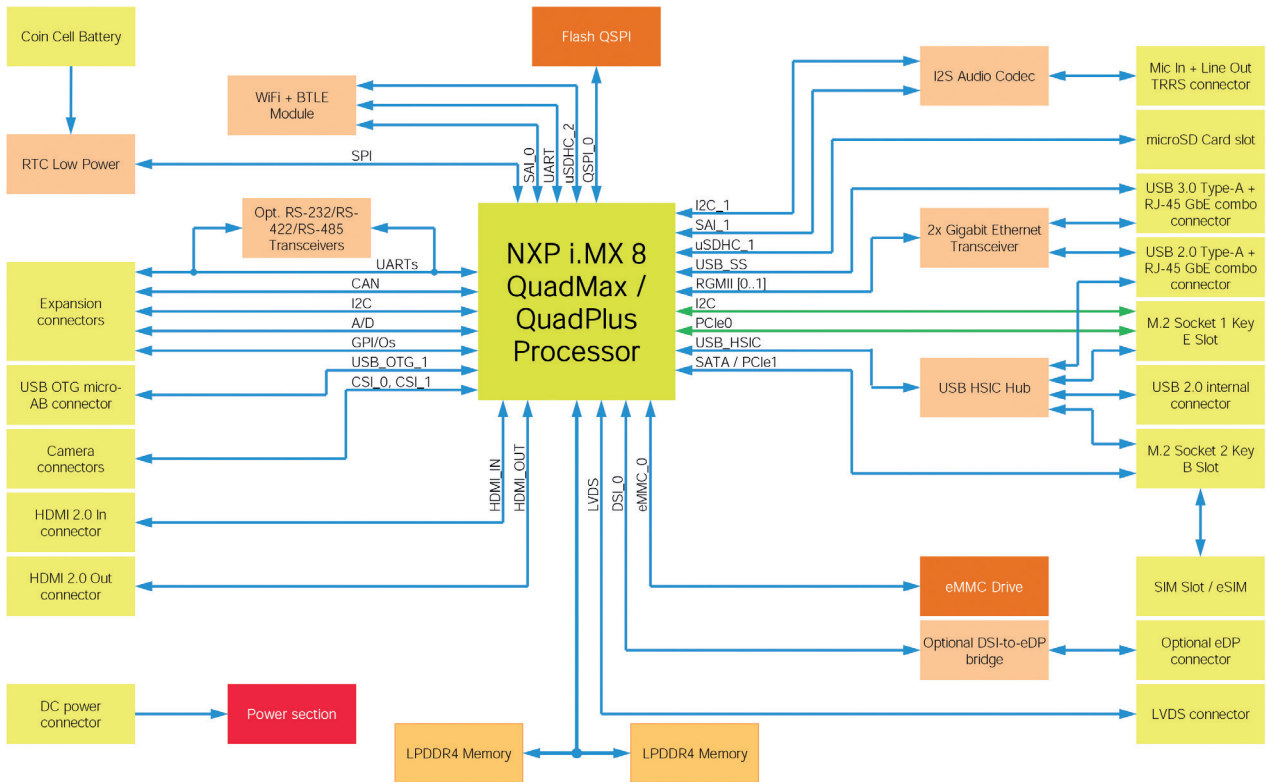
FEATURES

Processor	NXP i.MX 8 Family: i.MX 8QuadMax: 2x Arm® Cortex®-A72 + 4x Arm® Cortex®-A53 + 2x Cortex®-M4F i.MX 8QuadPlus: 1x Arm® Cortex®-A72 + 4x Arm® Cortex®-A53 + 2x Cortex®-M4F	PCI-e	2x PCI-e x1 ports, available on M.2 Socket 1 Key E and on M.2 Socket 2 Key B (pin shared with SATA interface) Slots
Max Cores	8	Audio	I2S Audio Codec HP + MIC interfaces, available on a single combo TRRS connector
Memory	Soldered down LPDDR4 memory, 64-bit interface, 1600MHz. Base configuration 2GB, up-scalable to 4GB, 6GB, 8GB	Serial Ports	1x UART TTL 1x RS-232 / UART TTL configurable 1x RS-485 / RS-422 / UART TTL configurable 3x CAN interfaces
Graphics	2x Graphics accelerators Vivante GC7000 / XVSX or GC7000Lit / XVSX QuadMax and QuadPlus 1x embedded VPU, supporting H.265 (4K30) and H.264 (1080p60) decoding and H.264 (1080p30) encoding Supports 3 independent video outputs (total combined resolution 4K)	Other Interfaces	4x Analog Inputs 6x GPIOs SPI interface I2C interface Embedded additional RTC circuitry for lowest power consumption SIM dedicated slot
Video Interfaces	HDMI® output (Micro) (HDMI® 2.0a Tx interface) HDMI® input (HDMI® 2.0a Rx interface)	Power Supply	+12VDC ± 10%
Video Resolution	HDMI®: Up to UltraHD (4K) LVDS, eDP: up to 1080p	Operating System	Wind River Linux Yocto Android
Mass Storage	eMMC 5.1 Drive soldered on-board, up to 64GB 1x S-ATA interface available on M.2 Socket 2 Key B Slot (interface shared with PCI-e x1) microSD Card Slot 4MB QuadSPI Flash NAND (boot device only)	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Networking	2x Gigabit Ethernet interfaces Combo WiFi 802.11 a/b/g/n/ac + BT LE 4.2 module with ceramic SMT antennas on-board M.2 Socket 2 Key B Slot for M.2 Modems M.2 Socket 1 Key E Slot for WiFi + BT external modules	Dimensions	146 x 102 mm (5.75" x 4.02")
USB	1 x USB 3.0 Host port on Type-A socket 1x USB 2.0 OTG port on micro-AB socket 1x USB 2.0 Host port on external Type-A socket 1x USB 2.0 Host port on internal connector 2 x USB 2.0 ports available on M.2 Key B and Key E slots	*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



Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet.

272.23

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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

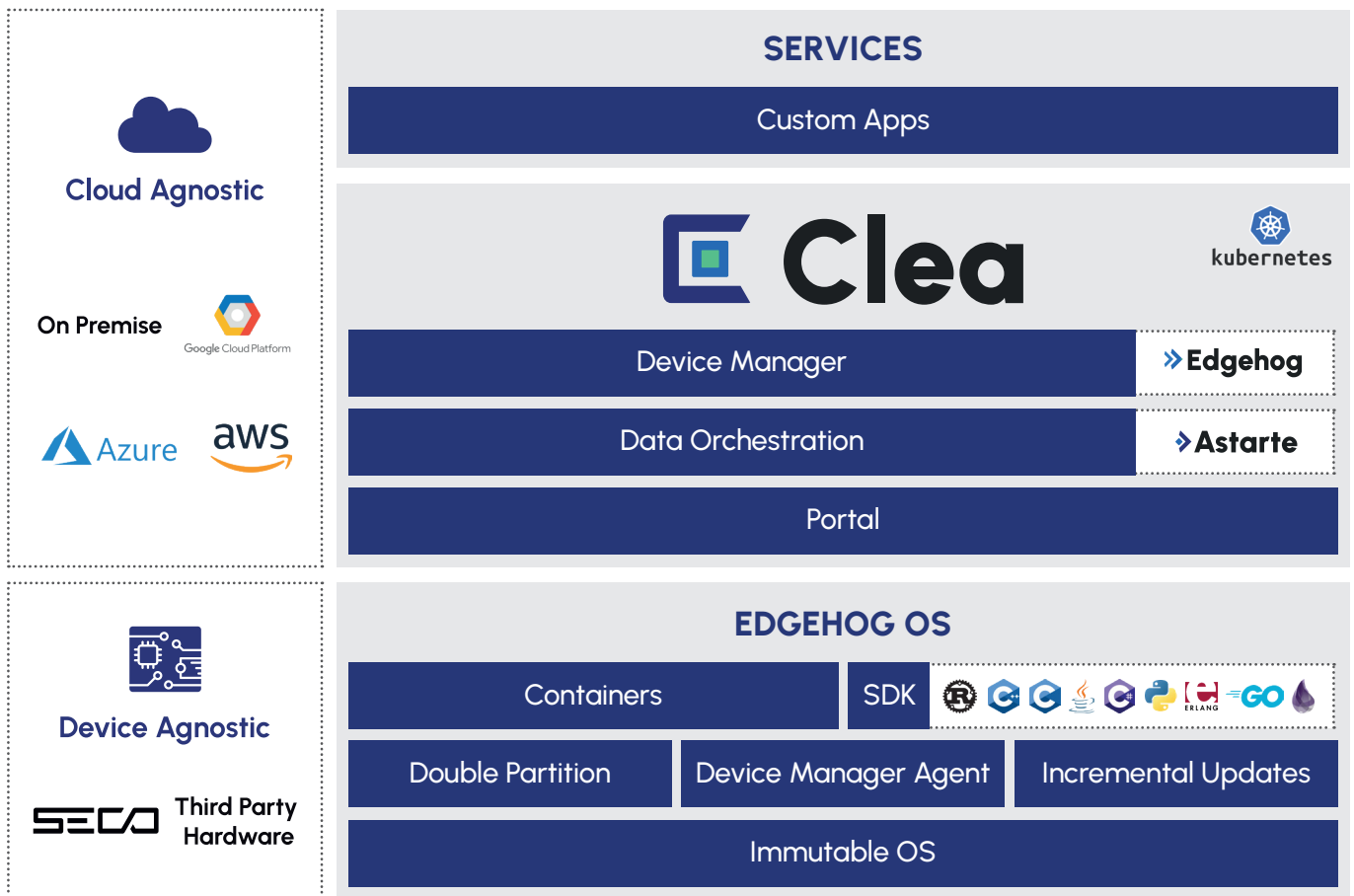
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