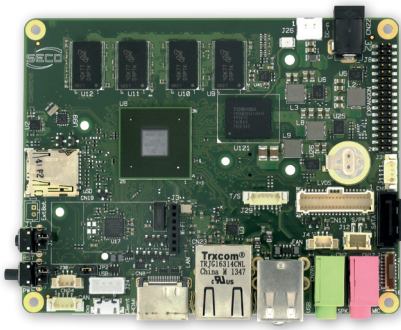




SBC-MX6

SBC with NXP i.MX 6 Processor

Flexible, Open-source, Industrial SBC



HIGHLIGHTS

CPU Single-, Dual- and Quad- Core (Arm® Cortex® A9 Cores)	CONNECTIVITY Wi-Fi add-on module; up to 28 GPIOs; CAN Bus
GRAPHICS 2D/3D dedicated graphics processors	MEMORY Up to 2GB DDR3L on-board

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Digital Signage

FEATURES

Processor	NXP i.MX 6 Family, based on Arm® Cortex-A9 processors: SBC-A62-J-SOLO : Single Core (i.MX6S) @1GHz SBC-A62-J-LITE : Dual Core Lite (i.MX6DL) @1GHz SBC-A62-J-PLUS : Dual Core Plus (i.MX6DP) @1GHz SBC-A62-J-QUAD : Quad Core (i.MX6Q) @1GHz	Networking	Gigabit Ethernet connector Internal USB connector for Wi-Fi Module
Max Cores	4	USB	2 x USB 2.0 Type-A ports and 1 x USB 2.0 internal connector USB micro-B Client port
Memory	Soldered on-board DDR3L memory***: SBC-A62-J-SOLO: 512MB 32-bit interface SBC-A62-J-LITE: 1GB 64-bit interface SBC-A62-J-PLUS: 2GB 64-bit interface SBC-A62-J-QUAD: 1GB 64-bit interface	Audio	SBC-A62-J-LITE, SBC-A62-J-PLUS and SBC-A62-J-QUAD: AC'97 Audio Codec Realtek ALC655 with Mic-In, Line-Out audio Jacks
Graphics	Integrated Graphics, with up to 3 separate HW accelerators for 2D, OpenGL® ES2.0 3D OpenVG™ accelerator (only SBC-A62-J-PLUS and SBC-A62-J-QUAD) HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VCI, MPEG-4 / XviD, H.263, H.264, DivX SBC-A62-J-SOLO and SBC-A62-J-LITE support up to 2 independent displays SBC-A62-J-PLUS and SBC-A62-J-QUAD support up to 3 independent displays	Serial Ports	Debug UART interface, TTL voltage level. SBC-A62-J-LITE, SBC-A62-J-PLUS and SBC-A62-J-QUAD: dedicated CAN Bus connector (Transceiver CAN 3.3V) Other serial interfaces on the expansion connector: SBC-A62-J-SOLO: 1 x Serial (TTL level) - 2 x Serial (RS-232) - 2 x CAN (TTL level); SBC-A62-J-LITE: 1 x Serial (TTL level) - 2 x Serial (RS-232) - 1 x CAN (TTL level); SBC-A62-J-PLUS and SBC-A62-J-QUAD: 1 x Serial (RS-485) - 2 x Serial (RS-232) - 1 x CAN (TTL level)
Video Interfaces	1 x Dual Channel or 2 x Single Channel 18 / 24 bit LVDS interface HDMI® interface 1.4	Other Interfaces	Dedicated connector (I2C, GPIO signals) for external Touch Screen controller; MIPI-CSI Camera connector; Configurable* expansion connector with: Up to 28 GPIO - SPI interface - SPDIF Audio interface - CAN interface (TTL level) - SDIO interface - 3 x PWM - I2C - UARTs
Video Resolution	HDMI®: up to 1920 x 1080p LVDS: up to 1920 x 1200	Power Supply	+12V _{DC} : Additional embedded Low Power RTC; SBC-A62-J-SOLO and SBC-A62-J-LITE: internal i.MX6 Real Time Clock (external battery required for time/date retention, not included) SBC-A62-J-PLUS and SBC-A62-J-QUAD: low power Real Time Clock with onboard battery
Mass Storage	4GB eMMC drive soldered on-board*** microSD Card slot SBC-A62-J-PLUS and SBC-A62-J-QUAD: SATA connector	Operating System	Free Android and Linux community BSP available at UDOO.org SECO Android (under development) and Linux BSP / WEC7 on request. Please contact us Yocto Guideline valid for SECO BSP Linux


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

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FEATURES

 Operating Temperature** 0°C ÷ +60 °C (Commercial temp.)
For Industrial temp. (-40°C ÷ +85°C) please contact us

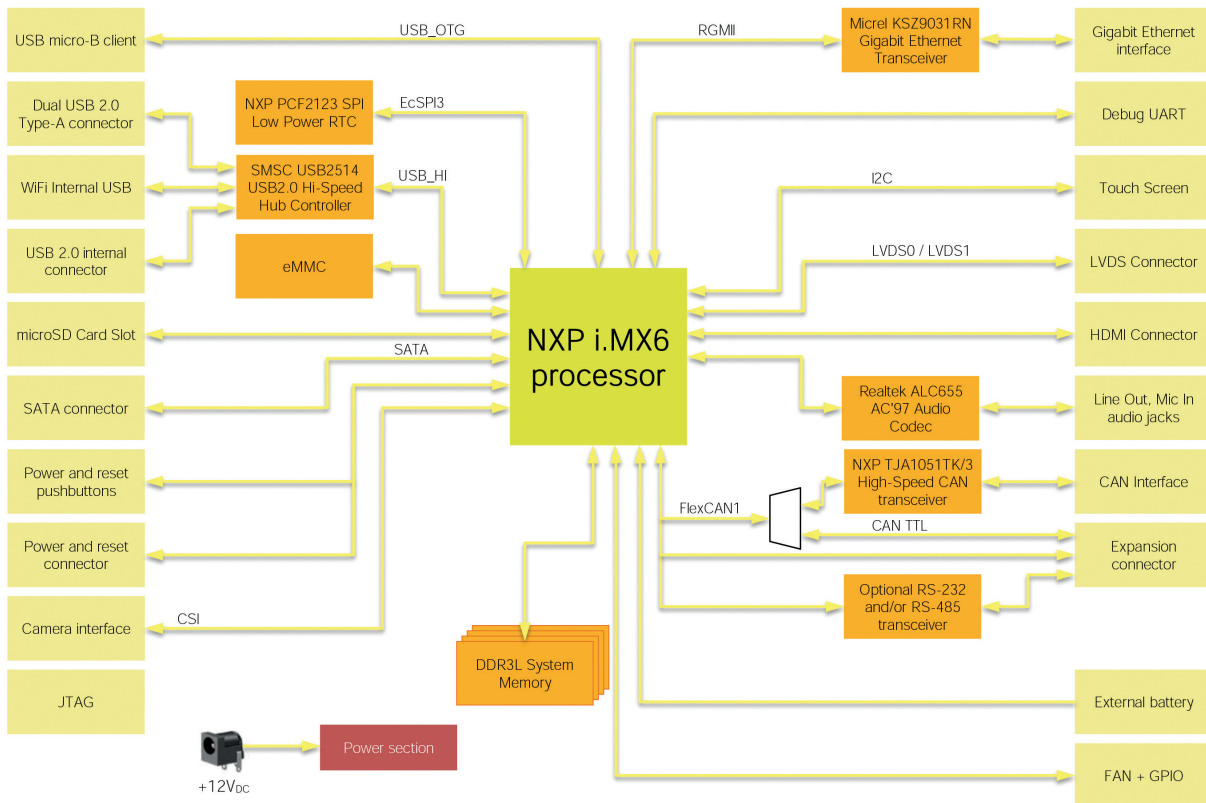
 Dimensions 110 x 86.5 mm (4.5" x 3.7")

* Please note that some of these interfaces are factory options, other configurations are made via SW.

** 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.

*** For additional configurability please contact us.

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

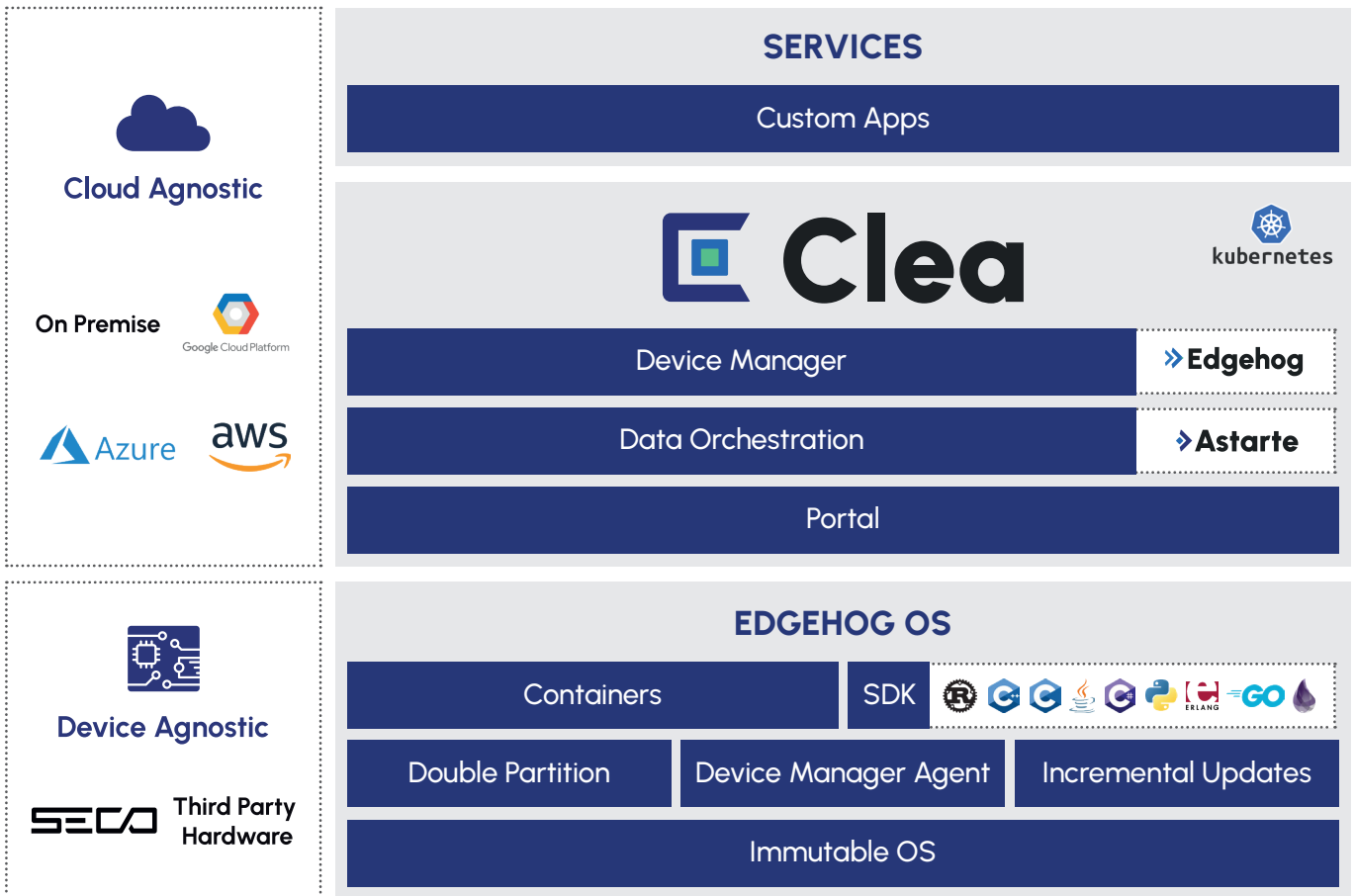
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

