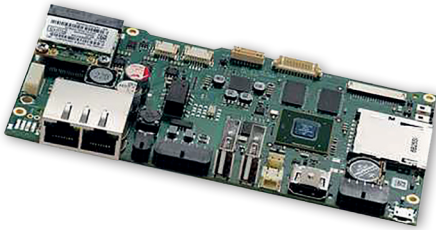## SBC-SANTOKA-MX6

Single Board Computer (SBC) based on NXP i.MX6 processor

Our IOT solution: PCIe interface for wireless connectivity and two Ethernet ports

HIGHLIGHTS

CPU
NXP i.MX 6 Family

CONNECTIVITY
2x 100MbE, up to 3x USB, 2x RS232, RS485, CAN

GRAPHICS
GC320 & GC355 2D accelerator + GC2000 3D accelerator

MEMORY
Soldered on Board DDR3L memory

GOLD PARTNER NXP

yocto PROJECT

MAIN FIELDS OF APPLICATION

Medical

Industrial Automation

Smart Devices

Digital Signage

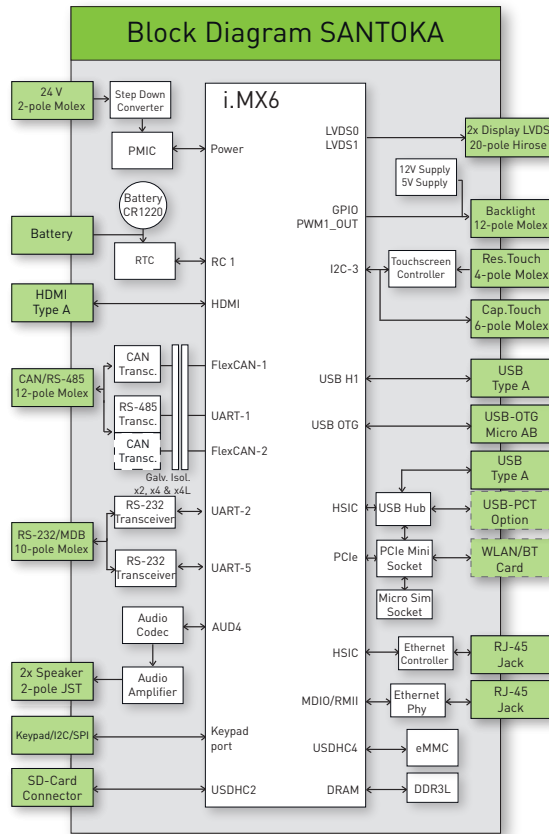## FEATURES

Processor	NXP i.MX 6 Family based on Arm® Cortex®-A9 cores : i.MX 6 Quad Plus – Full featured, 4x Cortex-A9 cores up to 1.0GHz i.MX 6 Quad – Full featured, 4x Cortex-A9 cores up to 1.0GHz i.MX 6 Dual – Full featured, 4x Cortex-A9 cores up to 1.0GHz i.MX 6 Single – Full featured, 4x Cortex-A9 cores up to 1.0GHz		USB	1x USB 2.0 OTG micro-AB up to 2x USB 2.0 Type-A
Memory	1 GB 64 bit DDR3L		Audio	1x speaker (connector), 1 W RMS (8Ω) parallel to internal speaker
Graphics	Integrated Graphics, with up to 3 separate HW accelerators for 2D, OpenGL® ES2.0 3D OpenVG™ accelerator HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VC1, MPEG-4 / XviD, H.263, H.264, DivX		Serial Ports	2x RS-232, RS-485
			Power Supply	9 ÷ 32 V_{DC}
Video Interfaces	LVDS Single/Dual Channel connector HDMI® interface		Operating System	Yocto
Video Resolution	Up to 1920x1080p60, 24bpp		CAN Bus	1x CAN (ISO/DIS 11898)
Mass Storage	eMMC: 4 GB MLC SD slot: 4 bit MMC/SDIO/SD/SDHC		Operating Temperature*	0°C ÷ +60°C
Networking	2x 100MbEthernet mPCIe (half size) socket for modems or Wifi/BT		Dimensions	159.0 x 18.0 x 80.0 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.

SECO

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BLOCK DIAGRAM

Block Diagram SANTOKA

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.

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.

DATA ORCHESTRATION

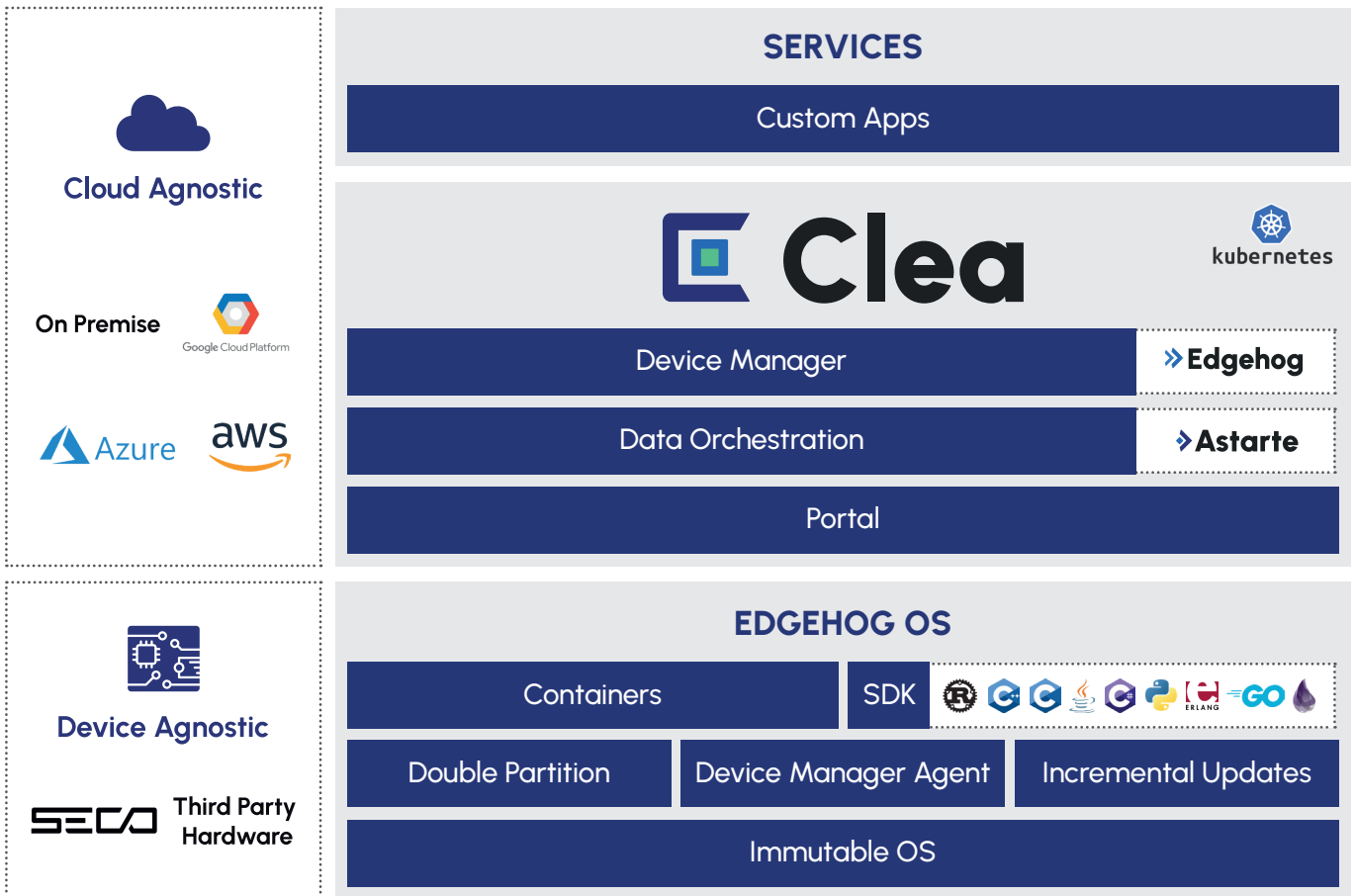Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.

Cloud Agnostic

On Premise
Google Cloud Platform

Azure   aws

SERVICES

Custom Apps

Clea   kubernetes

Device Manager   ❯❯ **Edgehog**

Data Orchestration   ❯ **Astarte**

Portal

Device Agnostic

SECO   Third Party Hardware

EDGEHOG OS

Containers   SDK

Double Partition   Device Manager Agent   Incremental Updates

Immutable OS

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EDGEHOG OS   CLEA DOCS

SECO   www.seco.com

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