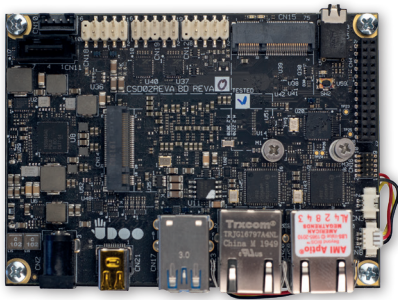




## UDOO VISION

Pico-ITX Single Board Computer with the Intel® Atom® X Series, Intel® Celeron® N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors

## Pico-ITX Single Board Computer for Computer Vision applications and rapid prototypes



## HIGHLIGHTS



## CPU

Intel® Atom® X Series, Intel® Celeron® N Series and Intel® Pentium® N Series



## CONNECTIVITY

1x GbE; 1x USB 3.0; 1x USB 2.0; M.2 Socket 1 Key E 2230 slot for Wi-Fi+BTLE modules



## GRAPHICS

Integrated Graphics, three independent display support



## MEMORY

up to 8GB single-/dual-/quad-channel LPDDR4



## MAIN FIELDS OF APPLICATION



Coffee &  
Vending



Safety &  
Surveillance



Industrial  
Automation



Smart Devices



Digital Signage

## FEATURES

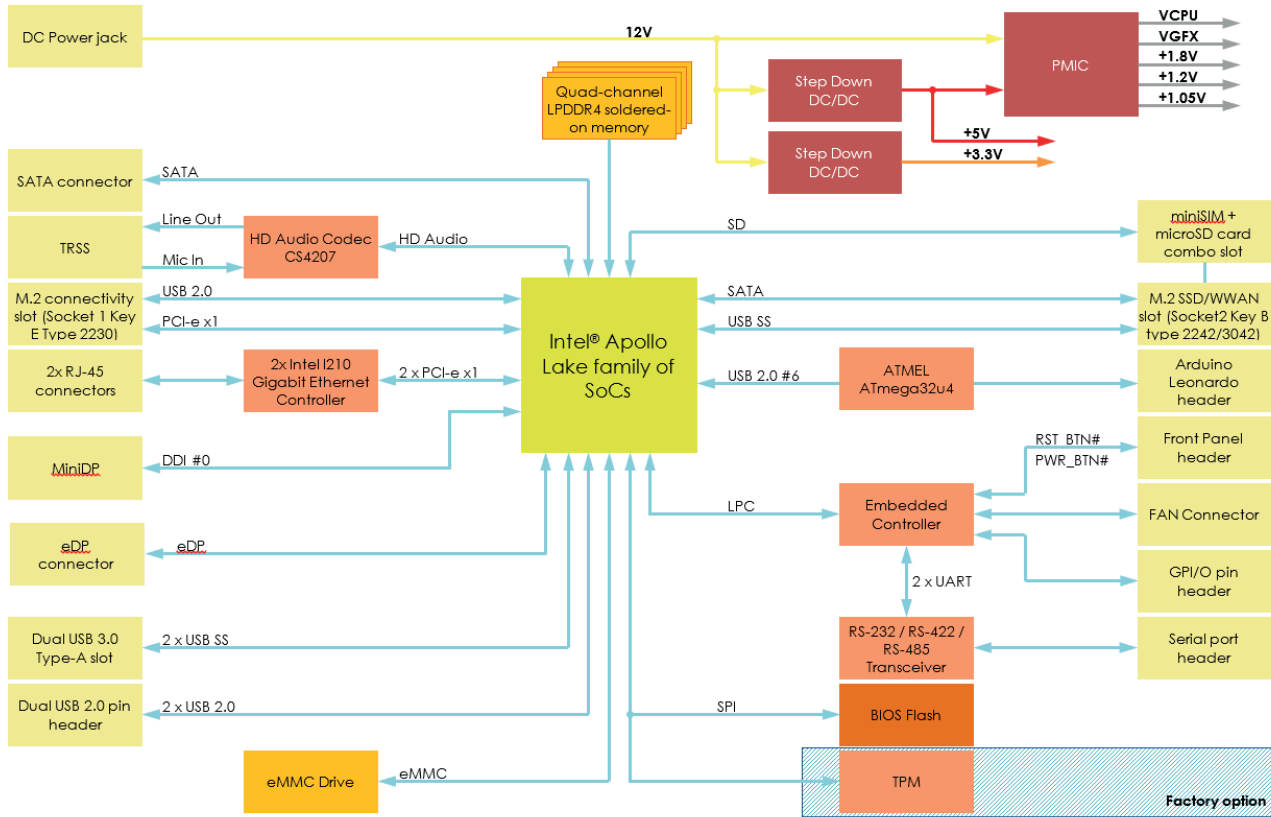
	Processor	Intel® Atom® x7-E3950 Quad Core @1.6 GHz (Burst 2.0GHz), 2MB L2 cache, 12W TDP		Networking	Dual Gigabit Ethernet connector WWAN (modem) M.2 Socket 2 Key B 2260 / 3042 slot (excludes SSD interface)
		Intel® Atom® x5-E3940 Quad Core @1.6 GHz (Burst 1.8GHz), 2MB L2 cache, 9W TDP			Connectivity M.2 Socket 1 Key E 2230 slot for Wi-Fi+BTLE modules
	Max Cores	Intel® Pentium® N4200 Quad Core @1.1GHz (burst 2.5GHz), 2MB L2 cache, 6W TDP		USB	USB 3.0 Dual Type-A connector Internal USB 2.0 Dual pin header
		Intel® Celeron® N3350 Dual Core @1.1GHz (burst 2.4GHz), 2MB L2 cache, 6W TDP			
	Max Thread			Audio	HD audio codec Line out + microphone on TRSS connector
	Memory	32-bit single-/dual-/quad-channel LPDDR4 soldered on-board, up to 2400 MT/s		Serial Ports	2x RS-232/RS-422/RS-485 Serial ports on internal pin header
		Max memory size 8GB			
	Graphics	Integrated Intel® HD Graphics 500 series controller with up to 18 Execution Units		Other Interfaces	miniSIM slot for M.2 modems (combo with microSD slot)
		HW decoding of HEVC(H.265), H.264, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG formats			8x GPIOs connector
	Video Interfaces	HW encoding of HEVC(H.265), H.264, MVC, VP8, VP9 and JPEG/MPEG formats		Power Supply	FAN connector
		Three independent display supported			Buttons / activity LED front panel header connector
	Video Resolution	Multimode DP++ on MiniDP connector		Operating System	Optional TPM 2.0 on-board
		eDP on socket header connector			ATMEL ATmega32u4 microcontroller with Arduino Leonardo compatible header
	Mass Storage	DP: up to 4096x2160 @ 60Hz		Operating Temperature*	+12V <sub>DC</sub> Cabled coin cell battery for RTC
		HDMI®: up to 3840x2160 @ 30Hz			Windows 10 Enterprise (64-bit)
	Dimensions	eDP: up to 3840x2160 @ 60Hz		Dimensions	Windows 10 IoT Core
					Linux LTS (64-bit)
	Mass Storage	eMMC 5.1 drive on-board, up to 64GB		Mass Storage	Yocto (64-bit)
		SATA Gen3 7p M connector			
	Mass Storage	SSD M.2 Socket 2 Key B lot, size 2260 / 3042 (excludes WWAN modules)		Mass Storage	
		microSD Card slot (combo with miniSIM slot)			

\*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.

# UDOO VISION

Pico-ITX Single Board Computer with the Intel® Atom® X Series, Intel® Celeron® N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors

## 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

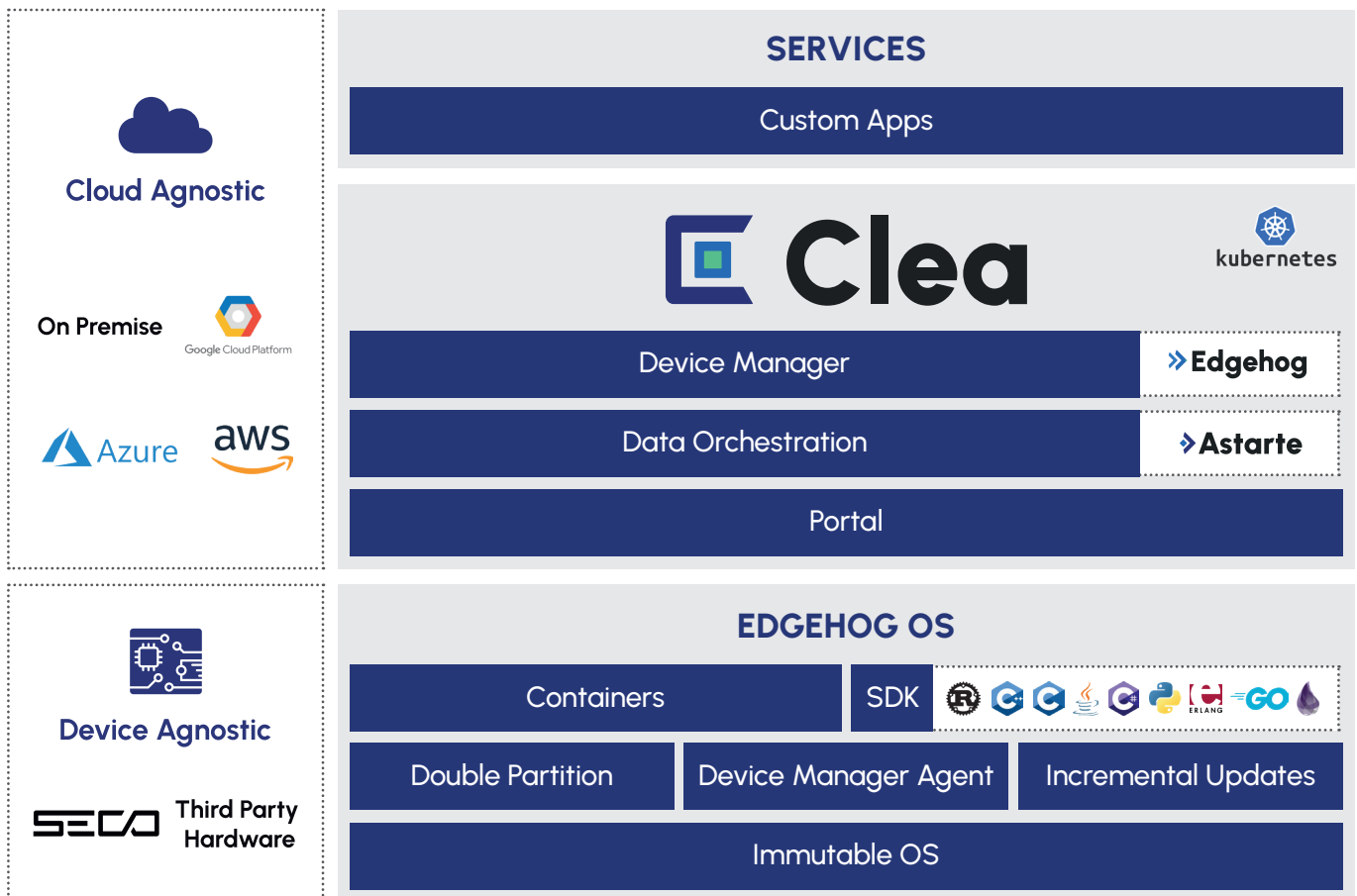
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[SECO:](#)

[SYS-D02-UDO-3130-0001-C0](#) [SYS-D02-UDO-4240-0001-C0](#)