



## SBC-pITX-ASL

Pico-ITX SBC with the Intel® AtomTMProcessor "Amston Lake"  
Industrial RE Series for the Edge



## HIGHLIGHTS



**CPU**  
Intel® AtomTMProcessor "Amston Lake" Industrial RE Series



**GRAPHICS**  
Up to 2 independent displays (LVDS/eDP + HDMI)  
Integrated Intel® Graphics controller with up to 32 EU  
4K60 HW decoding and encoding of HEVC (H.265), AVC  
(H.264), VP9, SCC, AVI (decoding only)



**CONNECTIVITY**  
Up to 2x 2.5GbE, M.2 E-Key (WiFi+BT), M.2  
B-Key (WWAN)



**MEMORY**  
LPDDR5-5200 Soldered Down Memory, Up  
to 16 GB, with IBECC support

Windows 11  
IoT Enterprise

EDGEHOG  
ALL-IN-ONE IIoT PLATFORM

HDMI®  
HIGH-DEFINITION MULTIMEDIA INTERFACE

## MAIN FIELDS OF APPLICATION



Coffee &  
Vending



Medical



Transportation



Safety &  
Surveillance



Industrial  
Automation



Smart Devices



Smart Buildings &  
Smart Cities



Digital Signage



Energy &  
Utilities

## FEATURES

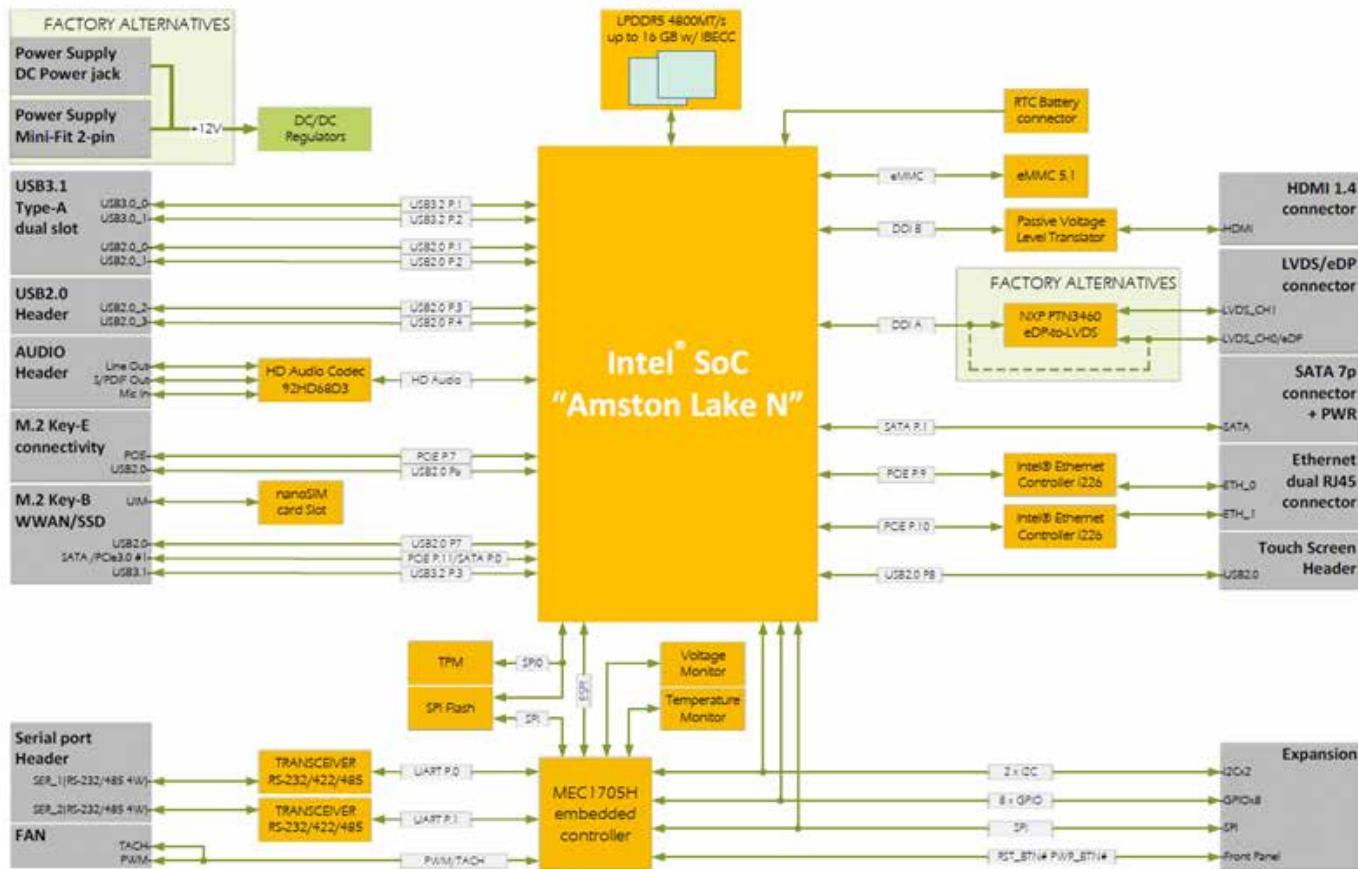
	Processor	<ul style="list-style-type: none"> <li>Intel AtomTM x721IRE Dual Core @1GHz (3.2GHZ Turbo) 6W TDP w TSN and w TCC</li> <li>Intel AtomTM x721IRE Dual Core @2GHz (3.4GHZ Turbo) 9W TDP w TSN and w TCC</li> <li>Intel AtomTM x7433RE Quad Core @1.5GHz (3.4GHZ Turbo) 9W TDP w TSN and w TCC</li> <li>Intel AtomTM x7835RE Eight Core @1.3GHz (3.6GHZ Turbo) 12W TDP w TSN and w TCC</li> </ul>		Up to 2x 2.5GbE Ethernet LAN ports available on 2x single RJ45 connectors M.2 WiFi+BT Connectivity Slot (Socket 1 Key E type 2230) M.2 WWAN Connectivity Slot (Socket 2 Key B size 2242/3042/3052/2260) coupled to on-board Nano-SIM slot**
	Memory	LPDDR5-5200 Soldered Down Memory, Up to 16 GB, with IBECC support		2x SuperSpeed USB 10Gbps ports on Dual type-A socket 3x USB 2.0 ports on internal pin headers
	Graphics	<p>Integrated Intel® Gen 12 UHD Graphics driven by Intel® Xe architecture:</p> <ul style="list-style-type: none"> <li>Intel® Atom® x7835E processors with 32 Execution Units</li> <li>Intel® Atom® x7433RE processors with 32 Execution Units</li> <li>Intel® Atom® x7213RE processors with 16 Execution Units</li> <li>Intel® Atom® x721IRE processors with 16 Execution Units</li> </ul> <p>AVX256 &amp; VNNI support for faster AI inference and media transcoding</p> <p>3D API DirectX 12.1, OpenGL 4.6, Mesa 3D, Vulkan 1.2 4K60 HW decoding and encoding of HEVC (H.265), AVC (H.264), VP9, SCC, AVI (decoding only)</p>		HD Audio Codec, Tempo Semicon 92HD68D3 S/PDIF Out and Mic In on internal pin header
	Video Interfaces	eDP 1.4b or Single/Dual Channel 1b/24bit LVDS interface HDMI 1.4b interface		2x Serial Ports (RS-232/RS-422/RS-485) on internal pin header
	Video Resolution	1x LVDS, Dual Channel 1b/24-bit, up to 1920 x 1080 1x HDMI 1.4b, up to 3840 x 2160 x 24bpp@20-30Hz eDP, Up to 4096 x 2304		2x I2C interfaces available on expansion internal header 8x GP I/Os interfaces available on expansion internal header 1x SPI interface available on expansion internal header Optional TPM 1.2/2.0 Module on-board FAN connector RST_BTN#, PWR_BTN# and activity LED signals on front panel pin header
	Power Supply	12V <sub>DC</sub> Cabled coin cell battery for RTC		Microsoft® Windows 11 IoT Enterprise LTSC Edgehog OS
	Operating Temperature*	0°C - +60°C (Commercial version) -40°C - +85°C (Industrial version)		100x72mm (3.93" x 2.83")

\*\*SATA SSD and WWAN functionalities share the same slot and are therefore mutually exclusive.

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## BLOCK DIAGRAM



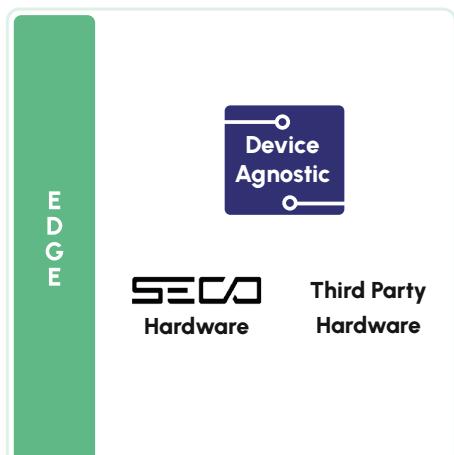
# Streamline and expedite your edge computing implementations

## Clea 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.

## Clea Astarte

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

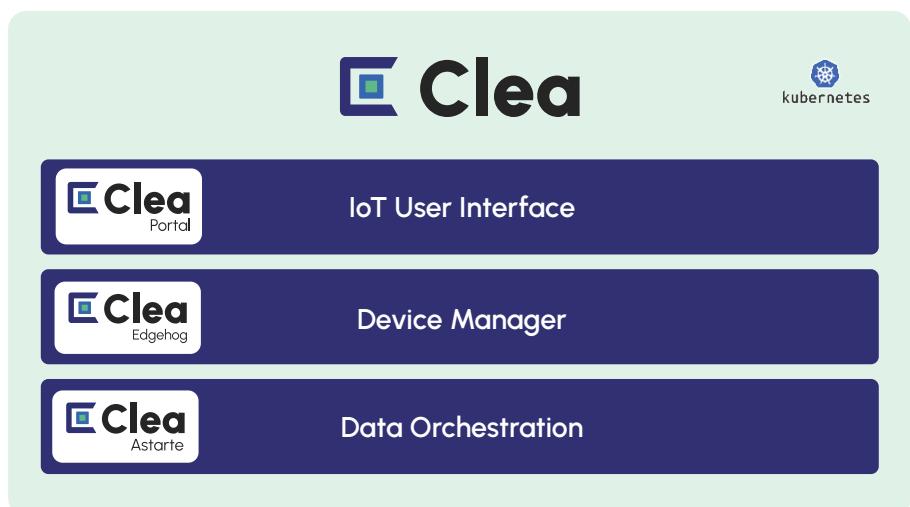


## Clea Edgehog

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

## Clea 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

Clea OS



Clea DOCS

