



Titan 290 EHL

Fanless embedded computer with the Intel® Atom® X6000E Series, Intel® Pentium® and Celeron® N and J Series (Codename: Elkhart Lake) SoCs

Low power Atom®-based Box PC ready for industrial automation and edge computing



HIGHLIGHTS



CPU

Intel® Atom® x6000E Series and Intel® Pentium® and Celeron® N and J Series processors



GRAPHICS

Integrated Intel® Gen11 UHD Graphics controller, up to 32 Execution Units



CONNECTIVITY

2x GbE, Optional M.2 WWAN and WLAN modules



MEMORY

Up to 16GB Quad-Channel LPDDR4 soldered down with IBECC



MAIN FIELDS OF APPLICATION



Safety &
Surveillance



Industrial
Automation



Smart Devices



Energy &
Utilities

FEATURES

	Processor	Intel® Celeron® J6413 Quad Core @ 1.8GHz (3GHz Turbo) 10W TDP	Video Resolution	Up to 4096x2160 @60Hz
		Intel® Celeron® N6211 Dual Core @ 1.2GHz (3GHz Turbo) 6.5W TDP	Mass Storage	Optional eMMC 5.1 drive soldered on-board Optional on-board M.2 SATA SSD **
	Memory	Intel® Pentium® N6415 Quad Core @ 1.2GHz (3GHz Turbo) 6.5W TDP	Networking	2x Gigabit Ethernet RJ45 connectors Optional on-board M.2 Wi-Fi (802.11 ac / a / b / g / n) +BT 5.0 module, external antennas* Optional on-board M.2 LTE modem with nanoSIM slot, external antennas* ** *Certification upon request
		Intel® Atom® x6211E Dual Core @ 1.3GHz (3GHz Turbo) 6W TDP w/ IBECC and IHS - Industrial		
	Graphics	Intel® Atom® x6413E Quad Core @ 1.5GHz (3GHz Turbo) 9W TDP w/ IBECC and IHS - Industrial	USB	Dual USB 3.2 Gen1 Type-A connector
		Intel® Atom® x6425E Quad Core @ 2.0GHz (3GHz Turbo) 12W TDP w/ IBECC and IHS - Industrial	Serial Ports	2x RS-232/RS-422/RS-485 UARTS software configurable, on DB9 connector
	Video Interfaces	Intel® Atom® x6212RE Dual Core @ 1.2GHz (no Turbo) 6W TDP w/ IBECC, IHS and TCC - Industrial	Audio	Lineout + MicIn combo TRRS audio jack
		Intel® Atom® x6414RE Quad Core @ 1.5GHz (no Turbo) 9W TDP w/ IBECC, IHS and TCC - Industrial		Optional 2x 12 poles terminal block connectors with the following I/O: · 2x CAN · 8x GPIOs / QEP / PWM / SPI · 2x I2C · 1x SPI · 1x 5V · 1x 3.3V · 1x 12V · 3x GND Power ON button nanoSIM slot soldered on-board for the modem Optional TPM 1.2/2.0 module on-board Optional 4x SMA connectors for external Wi-Fi / WWAN antennas
	Memory	Intel® Atom® x6425RE Quad Core @ 1.9GHz (no Turbo) 12W TDP w/ IBECC, IHS and TCC - Industrial	Other Interfaces	
		(*) IHS: Integrated Heatspreader; TCC: Time Coordinated Computing		

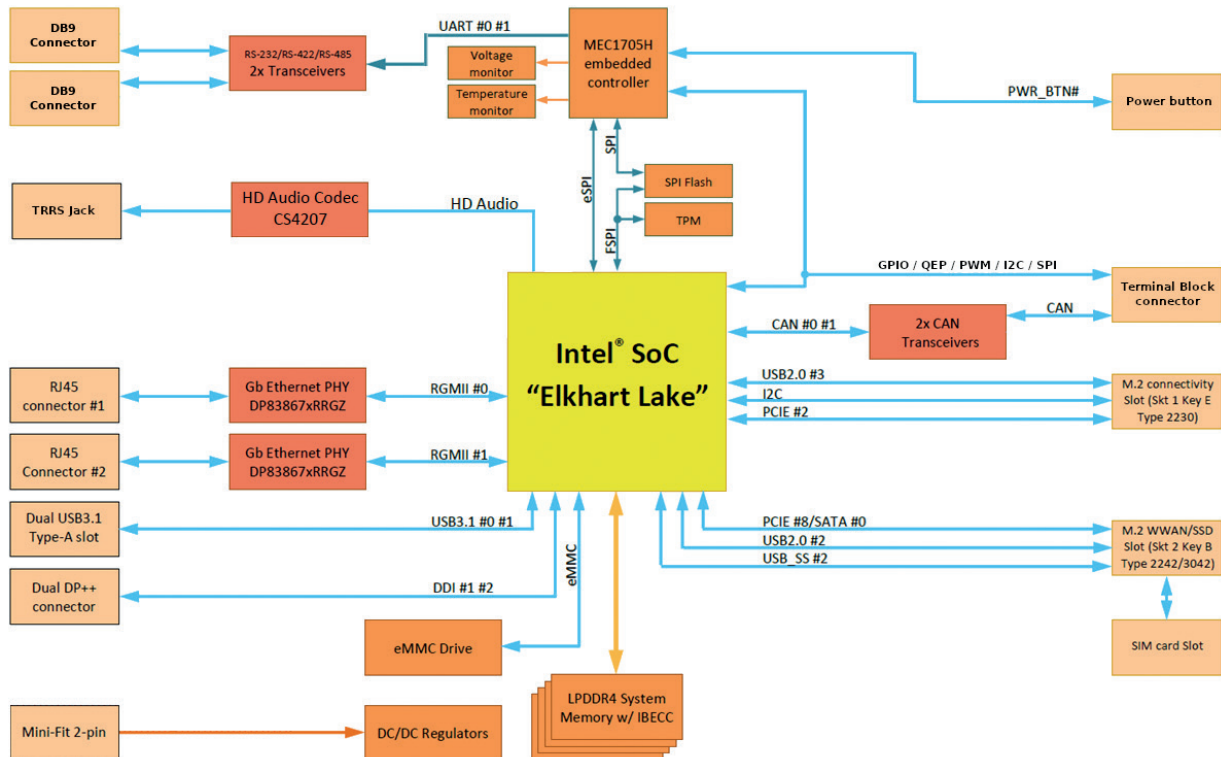
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FEATURES

	Power Supply	+12V _{DC} Cabled coin cell battery for RTC		Operating Temperature	0°C to +50°C
	Operating System	Microsoft® Windows 10 Enterprise Microsoft® Windows 10 IoT Core Linux Yocto		Dimensions	180 x 107 x 75 mm (7" x 4.2" x 3")
** SATA SSD and WWAN functionalities share the same slot and are therefore mutually exclusive.					

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

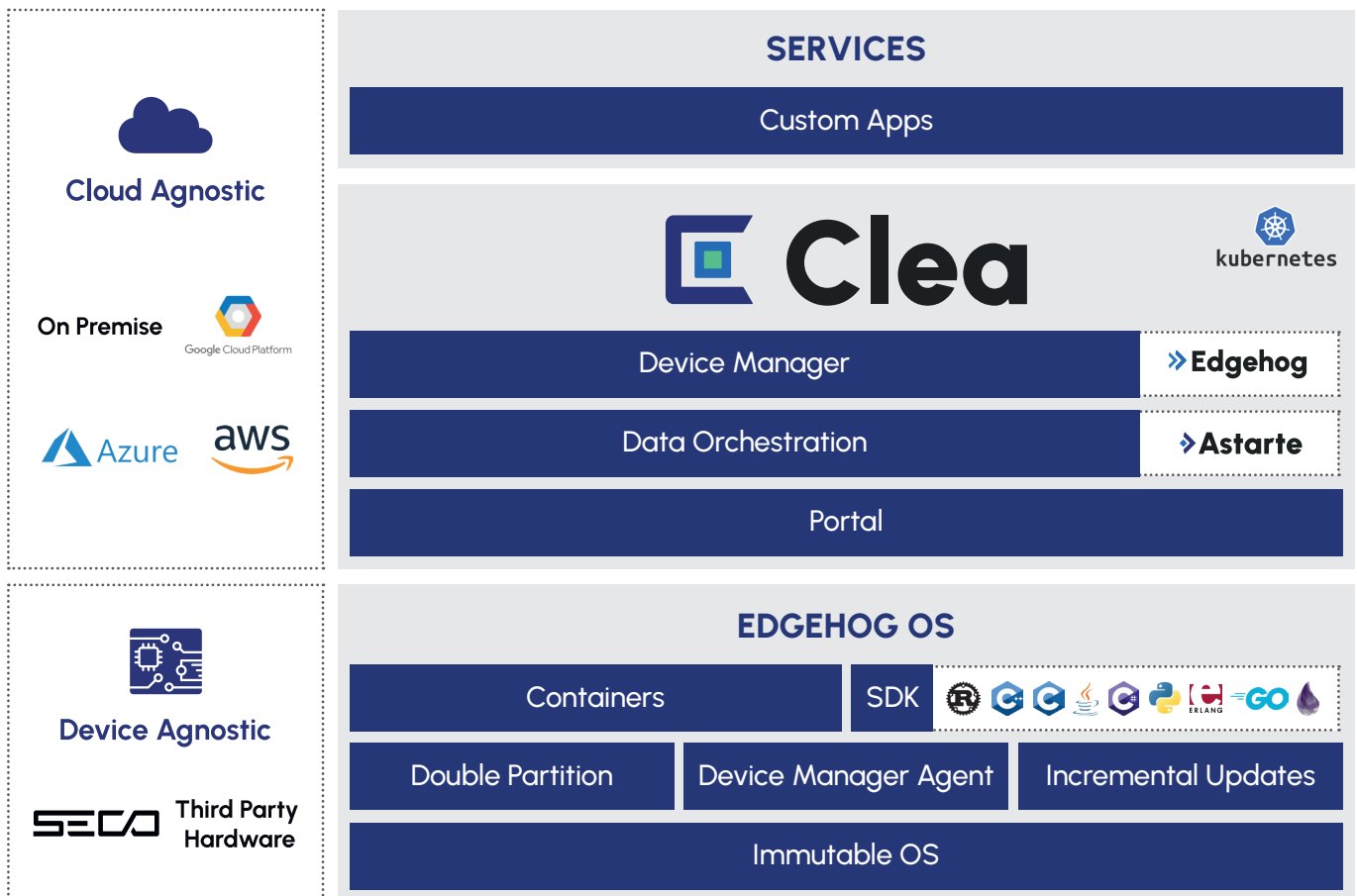
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

