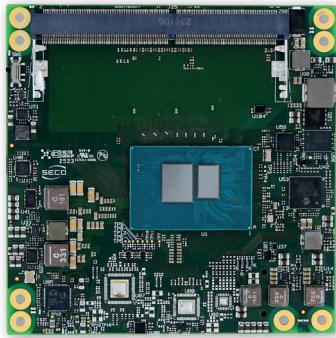




SOM-COMe-CT6-ASL

COM Express® 3.1 Type 6 Compact Module with Intel Atom® Processors x7000E Series (Codename: Amston Lake and Alder Lake N)

Intel® Next Gen Atom® processors in high-performance, versatile COM Express® with rugged efficiency



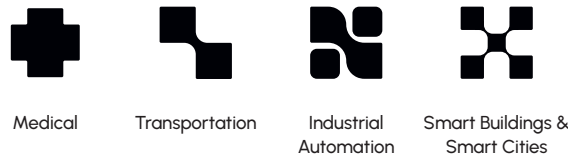
HIGHLIGHTS

CPU Intel® Atom® Processors x7000E Series, Intel® Processor N series and Intel® Core™ i3 N305 Processor	CONNECTIVITY 1x NBase-T 2.5GbE; up to 2x USB 10Gbps + 3x USB 5Gbps; 8x Hi-Speed USB; 6x PCI-e lanes Gen3
GRAPHICS Integrated Intel® Gen12 UHD graphics controller with up to 32 EU	MEMORY One SO-DIMM slot supporting DDR5-4800 IBECC memory, up to 16GB

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



FEATURES

Processor	Intel® Atom® Processors x7000E (Codename: Amston Lake) Series: <ul style="list-style-type: none"> Intel Atom® x7835RE Eight Core @ 1.3GHz (3.6GHz turbo) 12W TDP w/ TSN and TCC, industrial Intel Atom® x7433RE Quad Core @ 1.5GHz (3.4GHz turbo) 9W TDP w/ TSN and TCC, industrial Intel Atom® x7213RE Dual Core @ 2GHz (3.4GHz turbo) 9W TDP w/ TSN and TCC, industrial Intel Atom® x7211RE Dual Core @ 1GHz (3.2GHz turbo) 6W TDP w/ TSN and TCC, industrial 	Graphics	Integrated Intel® Gen12 UHD graphics controller with up to 32 EU Support up to 3 independent displays
	Intel Atom® Processors x7000E (Codename: Alder Lake N) Embedded E Series <ul style="list-style-type: none"> Intel Atom® x7425E Quad Core @ 1.5GHz (3.4GHz turbo) 12W TDP w/ TSN and TCC, commercial Intel Atom® x7213E Dual Core @ 1.7GHz (3.2GHz turbo) 10W TDP w/ TSN and TCC, commercial Intel Atom® x7211E Dual Core @ 1GHz (3.2GHz turbo) 6W TDP w/ TSN TCC, commercial 	Video Interfaces	2x Digital Display Interfaces (DDIs), supporting DP, HDMI®, DP Alt-Mode over Type-C 1x DDI Interface supporting DP / HDMI® 1x eDP or Single/Dual-Channel 18-/24-bit LVDS interface (factory alternatives)
System Memory	Intel® Core™ i3 Processors and Intel® Processor N Series (Codename: Alder Lake N) PC Client Processors <ul style="list-style-type: none"> Intel® Core™ i3-N305 Eight Core @ 1GHz / 1.8GHz (3.8GHz turbo) 9W/15W TDP w/o TSN and w/o TCC, commercial Intel® Processor N200 Quad Core @ 1GHz (3.7GHz turbo) 6W TDP w/o TSN and w/o TCC - commercial Intel® Processor N97 Quad Core @ 2GHz (3.6GHz turbo) 12W TDP w/o TSN and w/o TCC - commercial Intel® Processor N50 Dual Core @ 1GHz (3.4GHz turbo) 6W TDP w/o TSN and w/o TCC - commercial (*): TCC: Time Coordinated Computing (**): TSN: Time Sensitive Networking	Video Resolution	HDMI®: up to 4Kx2K @ 60Hz according to HDMI 2.0b DP 1.4, eDP 1.4: 4096x2304@60 Hz LVDS up to 1920x1200 @ 60Hz
		Mass Storage	Up to 2x S-ATA Gen3 channels Optional eMMC 5.1 drive soldered on-board
		Networking	1x NBase-T Ethernet interface with MaxLinear GPY211/215 GbE controller, supporting 2.5GbE and TSN.
		USB	Up to 2x USB 10Gbps Optional 3x USB 5Gbps 8x Hi-Speed USB ports
		Audio	HD Audio interface SoundWire Interface
		PCI-e	Up to 6x PCI-e Gen3 lanes
		Serial Ports	2x UARTs
		Other Interfaces	SPI, 2x I2C, SM Bus, Thermal Management, FAN management Optional eSPI or LPC bus (factory alternatives) Optional TPM 1.2/2.0 on-board LID#/SLEEP#/PWRBTN#, watchdog 4x GPI, 4x GPO Optional 2x CSI camera interfaces
		Power Supply	+12V _{DC} ± 10%, +5V _{SB} (optional), +3V _{RTC} (optional)

SOM-COMe-CT6-ASL

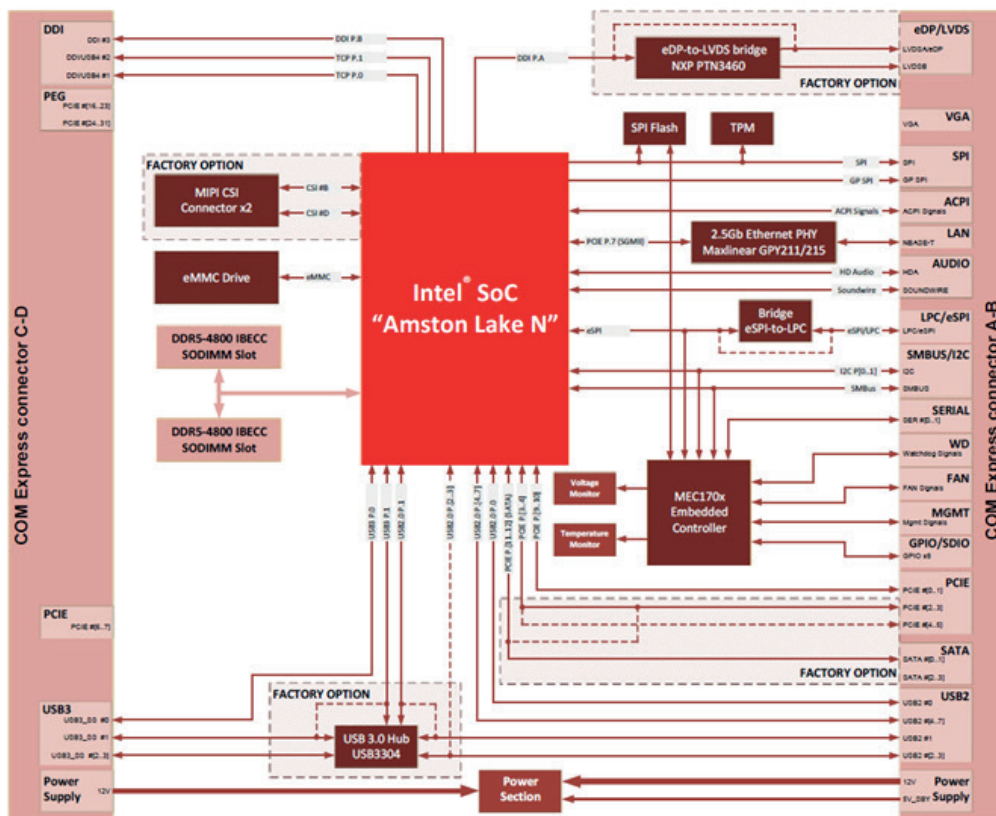
COM Express® 3.1 Type 6 Compact Module with Intel Atom® Processors x7000E Series (Codename: Amston Lake and Alder Lake N)

FEATURES

Operating System	Microsoft® Windows 10 IoT Enterprise 2019 LTSC Microsoft® Windows 10 IoT Enterprise 2021 LTSC Edgehog OS (Yocto)
Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Dimensions	95 x 95 mm (COM Express® Compact Form factor, Type 6 pinout)

*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.

BLOCK DIAGRAM



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

272.23

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

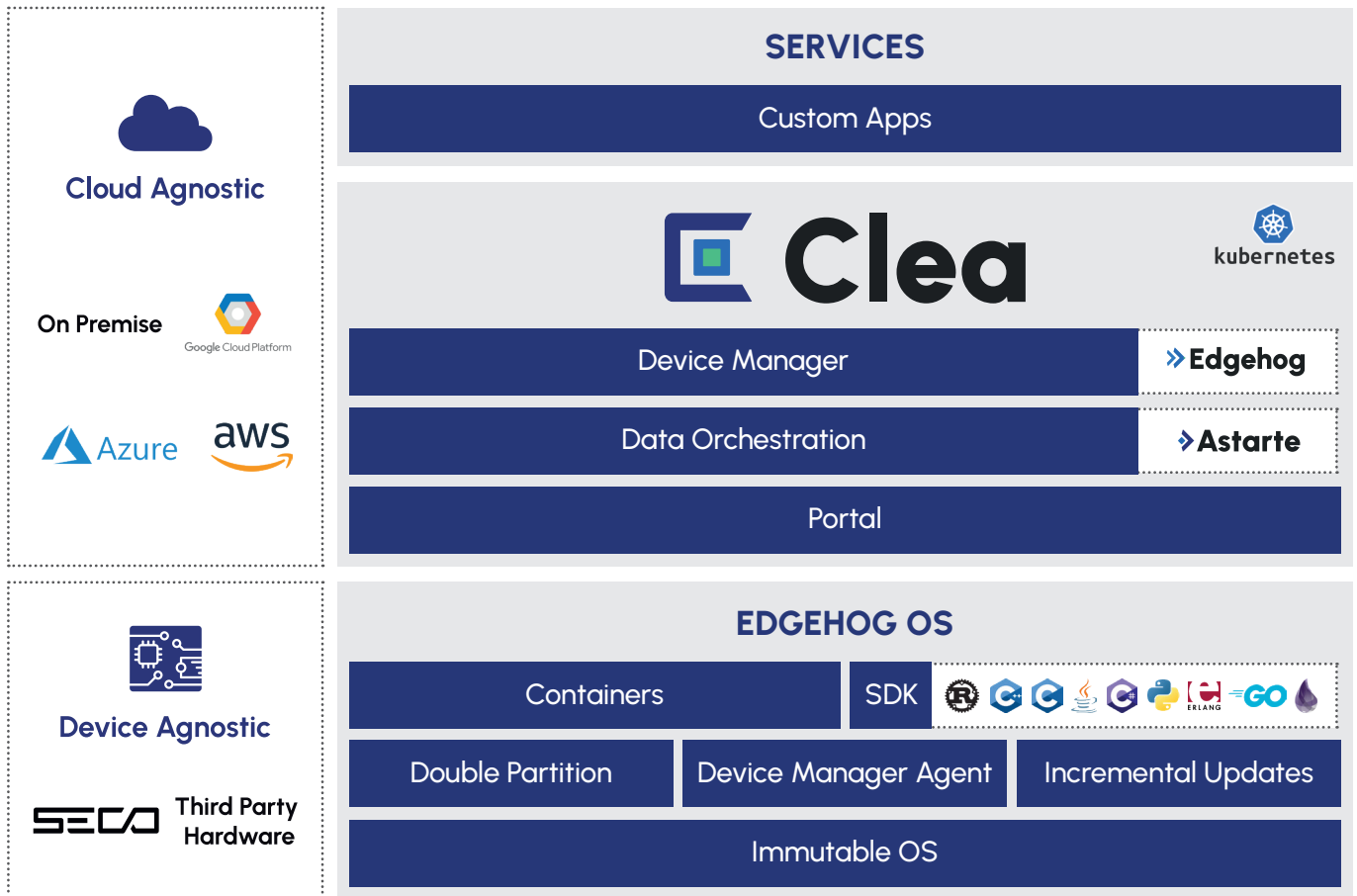
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

