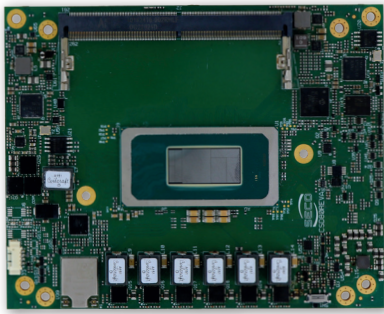




SOM-COM-HPC-A-MTL

COM-HPC® Size A Client Module with Intel® Core™ Ultra Processors Family (codename: Meteor Lake -H and -U)

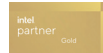
Next-gen Intel® Core™ Ultra power, superior graphics, robust connectivity, and durability for demanding applications



HIGHLIGHTS

CPU Intel® Core™ Ultra Processors Family	CONNECTIVITY Up to 2x NBase-T 2.5GbE; up to 2x USB 20Gbps + 2x USB 10Gbps; 8x Hi-Speed USB; 6x PCI-e lanes Gen4
GRAPHICS Integrated Intel® X® LPG graphic controller with up to 128 EU	MEMORY Two SO-DIMM slot supporting DDR5-5600 IB ECC memory, up to 64GB

COM+HPC



Windows 11

EDGEHOG

MAIN FIELDS OF APPLICATION







FEATURES

Processor	Intel® Core™ Ultra Processors Family (codename: Meteor Lake-H) - 20/28/65W base power: <ul style="list-style-type: none"> Intel® Core™ Ultra 7 processor 165H with vPRO, 6 P-Cores with HT @ 1.4GHz (turbo 5.0GHz) + 8 E-Cores @ 0.9GHz (turbo 3.8GHz), 24M Cache Intel® Core™ Ultra 7 processor 155H, 6 P-Cores with HT @ 1.4GHz (turbo 4.8GHz) + 8 E-Cores @ 0.9GHz (turbo 3.8GHz), 24M Cache Intel® Core™ Ultra 5 processor 135H with vPRO, 4 P-Cores with HT @ 1.7GHz (turbo 4.6GHz) + 8 E-Cores @ 1.2GHz (turbo 3.6GHz), 18M Cache Intel® Core™ Ultra 5 processor 125H, 4 P-Cores with HT @ 1.2GHz (turbo 4.5GHz) + 8 E-Cores @ 0.7GHz (turbo 3.6GHz), 18M Cache Intel® Core™ Ultra Processors Family (codename: Meteor Lake-U) - 12/15/28W Base Power: <ul style="list-style-type: none"> Intel® Core™ Ultra 7 processor 165U with vPRO, 2 P-Cores with HT @ 1.7GHz (turbo 4.9GHz) + 8 E-Cores @ 1.2GHz (turbo 3.8GHz), 12M Cache Intel® Core™ Ultra 7 processor 155U, 2 P-Cores with HT @ 1.7GHz (turbo 4.8GHz) + 8 E-Cores @ 1.2GHz (turbo 3.8GHz), 12M Cache Intel® Core™ Ultra 5 processor 135U with vPRO, 2 P-Cores with HT @ 1.6GHz (turbo 4.4GHz) + 8 E-Cores @ 1.1GHz (turbo 3.6GHz), 12M Cache Intel® Core™ Ultra 5 processor 125U, 2 P-Cores with HT @ 1.3GHz (turbo 4.3GHz) + 8 E-Cores @ 0.8GHz (turbo 3.6GHz), 12M Cache 	Video Interfaces	2x Digital Display Interfaces (DDIs) supporting DP, HDMI®, DP Alt-Mode over Type-C 1x DDI Interface supporting DP / HDMI® / eDP 1x eDP interface
		Video Resolution	HDMI®: up to 8K60 according to HDM® 2.1 DP 2.1: up to 8K60Hz / 5K120Hz eDP 1.4b: up to 4K120Hz HDR Max resolution 4x4K60Hz
		Mass Storage	2x external SATA Gen3 Channels PCI-e x4 ports can be used to connect, on the carrier board, M.2 NVMe drives
		Networking	Up to 2x NBase-T ethernet interfaces with Intel® I226 GbE controller, supporting 2.5GbE and TSN.
		USB	2x USB 10Gbps interfaces 2x USB 20Gbps/40Gbps interfaces 8x Hi-Speed USB ports
		PCI-e	Up to 7x PCI-e x1 Gen4 lanes (4x groupable) Up to 3x PCI-e x4 Gen4 ports 1x PCI-e x8 Gen5 port (-H Series processors only) Max 9 root ports supported
		Audio	HD Audio interface 2x SoundWire interface
		Serial Ports	2x 4-wires UARTs
System Memory	Two DDR5 SO-DIMM slot supporting DDR5-5600 IB ECC* modules, up to 64GB (*) IB ECC: In-Band Error-Correcting Code Memory	Other Interfaces	Boot SPI + GP SPI, 2x I2C, SM Bus, thermal management, FAN management eSPI interface Optional TPM 12/2.0 on-board Power and system management signals Watchdog 12x GPIO 2x MIPI-CSI-2 4-lane camera interfaces
Graphics	Integrated Intel® X® LPG graphics controller with up to 8 Xe cores (128 EU) Support up to 4 independent displays		

SOM-COM-HPC-A-MTL

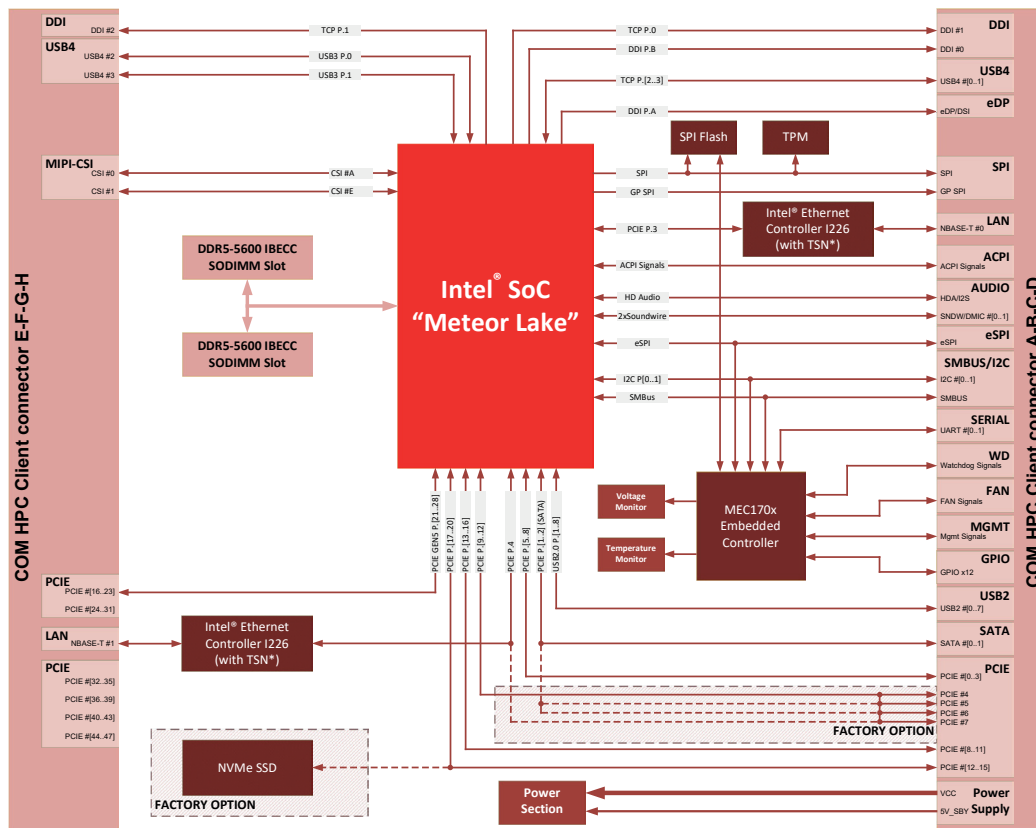
COM-HPC® Size A Client Module with Intel® Core™ Ultra Processors Family (codename: Meteor Lake -H and -U)

FEATURES

	Power Supply	+12V _{DC} ± 10%, +5V _{SB} (optional), +3V _{RTC} (optional)
	Operating System	Microsoft® Windows 11 IoT Enterprise 2019 Edgehog OS (Linux Yocto)
	Operating Temperature*	0°C ÷ +60°C (Commercial version)
	Dimensions	120 x 95 mm (COM-HPC® Size A Form factor, Client 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

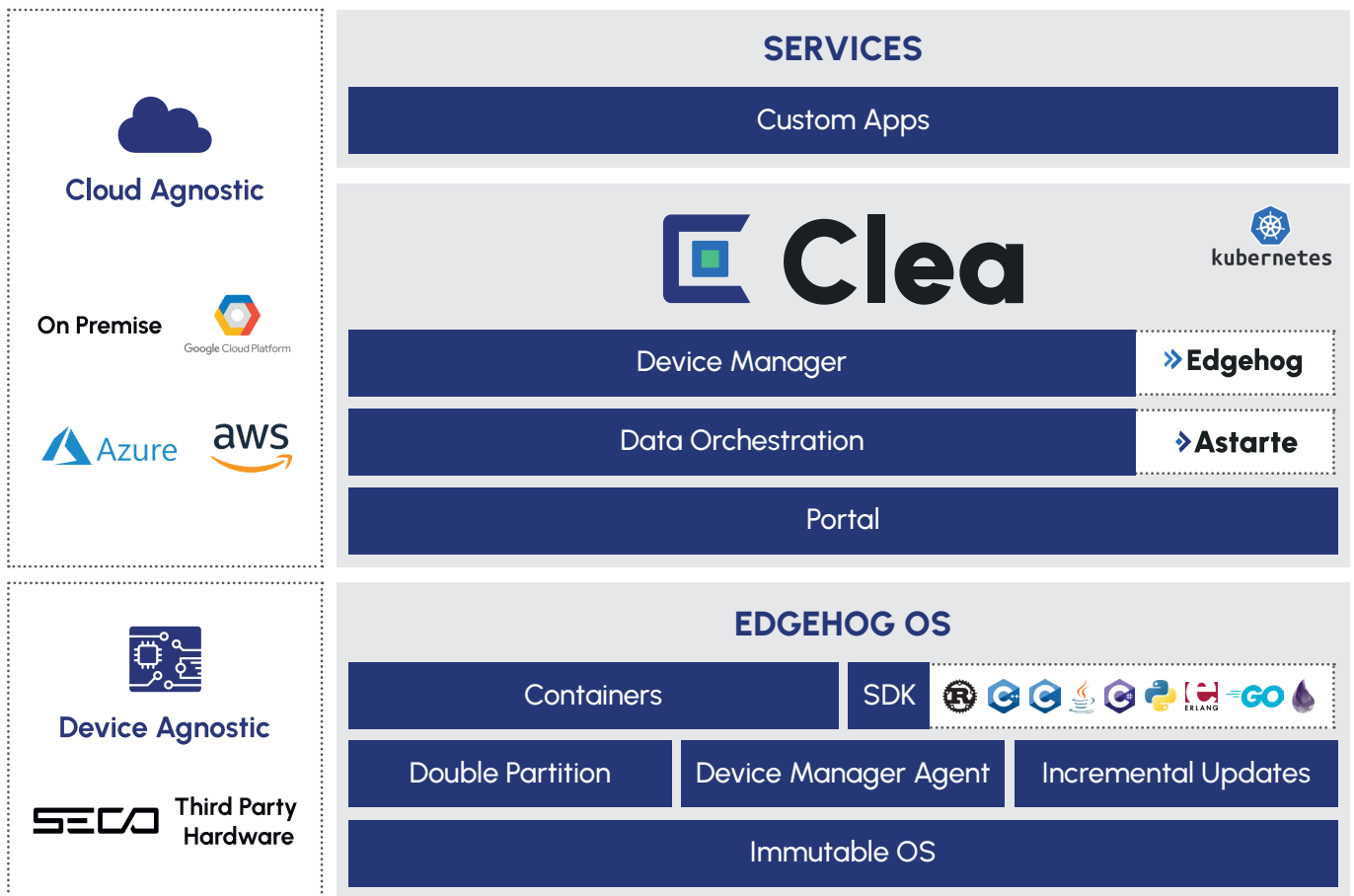
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.



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EDGEHOG OS



CLEA DOCS

