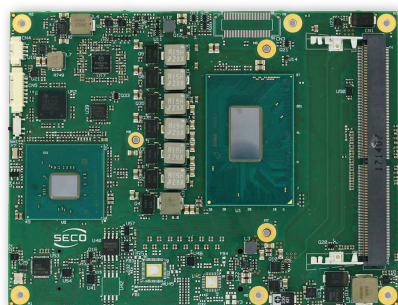




SOM-COMe-BT6-CFL-H

COM Express® Basic Type 6 with Intel® 8th and 9th Gen Core™ / Xeon® / Celeron® (Codename: Coffee Lake and Coffee Lake Refresh)

Exceptional platform performance with up to six cores
for more processing power



HIGHLIGHTS



CPU
8th Gen Core™/Xeon® (Coffee Lake) & 9th Gen Core™ / Xeon® / Celeron® CPUs (Coffee Lake Refresh)



GRAPHICS
Intel® UHD Graphics 630/P630 architecture, up to 48 Execution Units



CONNECTIVITY
4x USB 3.0; 8x USB 2.0; 8x PCI-e x1 Gen3; PEG x16 Gen3



MEMORY
Two DDR4 SO-DIMM Slots supporting DDR4-2666 ECC Memory, up to 64GB



MAIN FIELDS OF APPLICATION



Coffee & Vending



Transportation



Industrial Automation



Digital Signage

FEATURES

Processor	Intel® 8th generation Core™ / Xeon® (formerly Coffee Lake H) CPUs:	Max Cores 6
	- Intel® Core™ i7-8850H, Six Core @ 2.6GHz (4.3GHz Max 1 Core Turbo), 9MB Cache, 45W TDP (35W cTDP), with HyperThreading - Intel® Core™ i5-8400H, Quad Core @ 2.5GHz (4.2GHz Max 1 Core Turbo), 8MB Cache, 45W TDP (35W cTDP), with HyperThreading - Intel® Core™ i3-8100H, Quad Core @ 3.0GHz, 6MB Cache, 45W TDP (35W cTDP) - Intel® Xeon® E-2176M, Six Core @ 2.7GHz (4.4GHz Max 1 Core Turbo), 12MB Cache, 45W TDP (35W cTDP), with HyperThreading	Max Thread 12
	Intel® 9th generation Core™ / Xeon® / Celeron® (formerly Coffee Lake Refresh) CPUs:	Chipset Intel® QM370, HM370 or CM246 PCH
	- Intel® Xeon® E-2276ME Six Core @2.8GHz (4.5GHz Max 1 Core Turbo), 12MB Cache, 45W TDP (35W cTDP), with HyperThreading - Intel® Xeon® E-2276ML Six Core @2.0GHz (4.2GHz Max 1 Core Turbo), 12MB Cache, 25W TDP, with HyperThreading - Intel® Xeon® E-2254ME Quad Core @2.6GHz (3.8GHz Max 1 Core Turbo), 8MB Cache, 45W TDP (35W cTDP), with HyperThreading - Intel® Xeon® E-2254ML Quad Core @1.7GHz (3.5GHz Max 1 Core Turbo), 8MB Cache, 25W TDP, with HyperThreading - Intel® Core™ i7-9850HE, Six Core @2.7GHz (4.4GHz Max 1 Core Turbo), 9MB Cache, 45W TDP (35W cTDP), with HyperThreading - Intel® Core™ i7-9850HL, Six Core @1.9GHz (4.1GHz Max 1 Core Turbo), 9MB Cache, 25W TDP, with HyperThreading - Intel® Core™ i3-9100HL, Quad Core @1.6GHz (2.9GHz Max 1 Core Turbo), 6MB Cache, 25W TDP - Intel® Celeron® G4930E, Dual Core @2.4GHz, 2MB Cache, 35W TDP - Intel® Celeron® G4932E, Dual Core @1.9GHz, 2MB Cache, 25W TDP	Memory Two DDR4 SO-DIMM Slots supporting DDR4-2666 Memory, up to 64GB ECC DDR4 memory modules supported only with Xeon®, Core™ i3 and Celeron® CPUs combined with CM246 PCH
		Graphics Intel® UHD Graphics 630/P630 architecture, up to 48 Execution Units Up to 3 independent displays supported DirectX 12, OpenGL 4.5, and OpenCL 2.1 support HW accelerated video decode MPEG2, VCI/WMV9, AVC/H.264, VP8, JPEG/MJPEG, HEVC/H.265 (8-/10-bit), VP9 HW accelerated video encode MPEG2, AVC/H.264, VP8, JPEG, HEVC/H.265, VP9
		Video Interfaces Up to 3 x Digital Display Interfaces (DDIs), supporting DP 1.2, DVI, HDMI® 1.4 eDP 1.4 or Single/Dual-Channel 18-/24-bit LVDS interface or LVDS + VGA interface
		Video Resolution eDP, DP up to 4096x2304 @ 60Hz, 24bpp HDMI® up to 4096x2160 @ 24Hz, 24bpp (HDMI® 1.4) LVDS, VGA up to 1920x1200 @ 60Hz
		Mass Storage 4 x S-ATA Gen3 Channels SD interface (shared with GPI/OS)
		Networking Gigabit Ethernet interface Intel® I219-LM GbE Controller
		USB 4 x USB 3.0 Host ports 8 x USB 2.0 Host ports
		PCI-e 8 x PCI-e x1 Gen3 lanes PCI-express Graphics (PEG) Gen3 x16

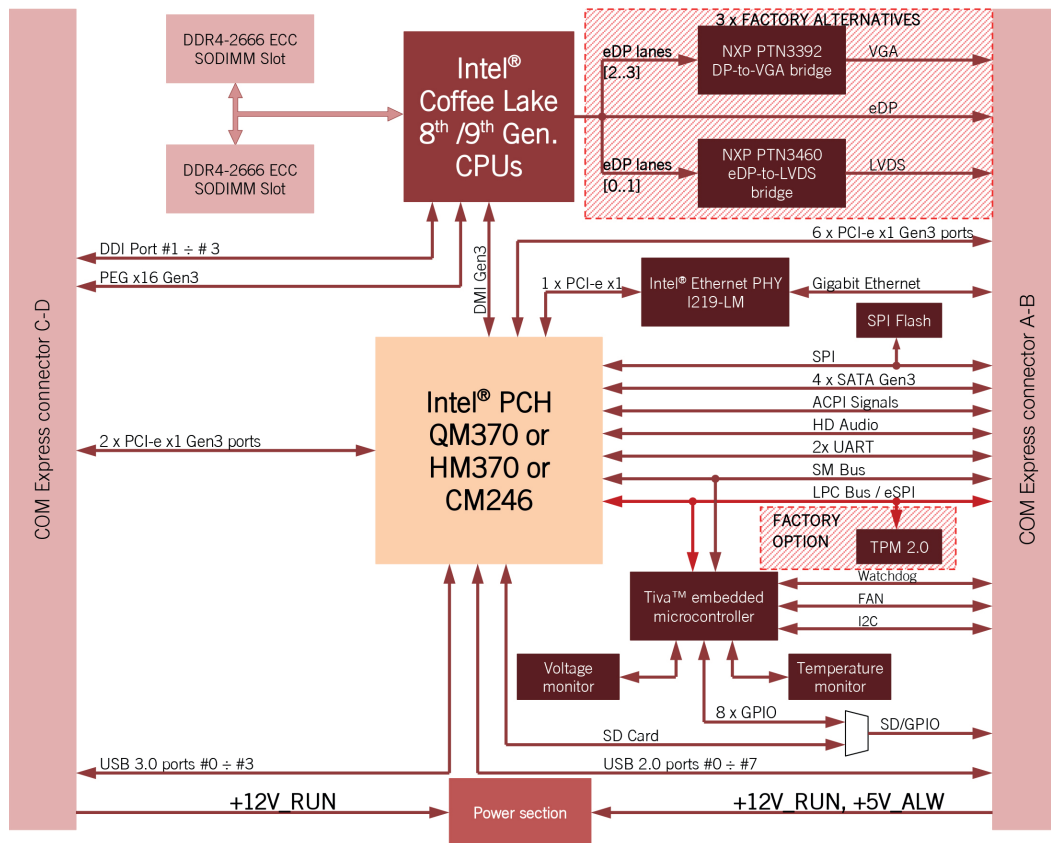
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FEATURES

	Audio	HD Audio interface		Operating System	Microsoft® Windows 10 Linux
	Serial Ports	2 x UARTs		Operating Temperature*	0°C ÷ +60°C (Commercial version)
	Other Interfaces	SPI, I2C, SM Bus, Thermal Management, FAN management LPC bus Optional TPM 2.0 on-board LID#/SLEEP#/PWRBTN#, Watchdog 4 x GPI, 4 x GPO (pins shared with SD interface)		Dimensions	125 x 95 mm (Com Express® Basic Form factor, Type 6 pinout)
	Power Supply	+12V _{DC} ± 10% and +5V _{SB} (optional)	*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



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

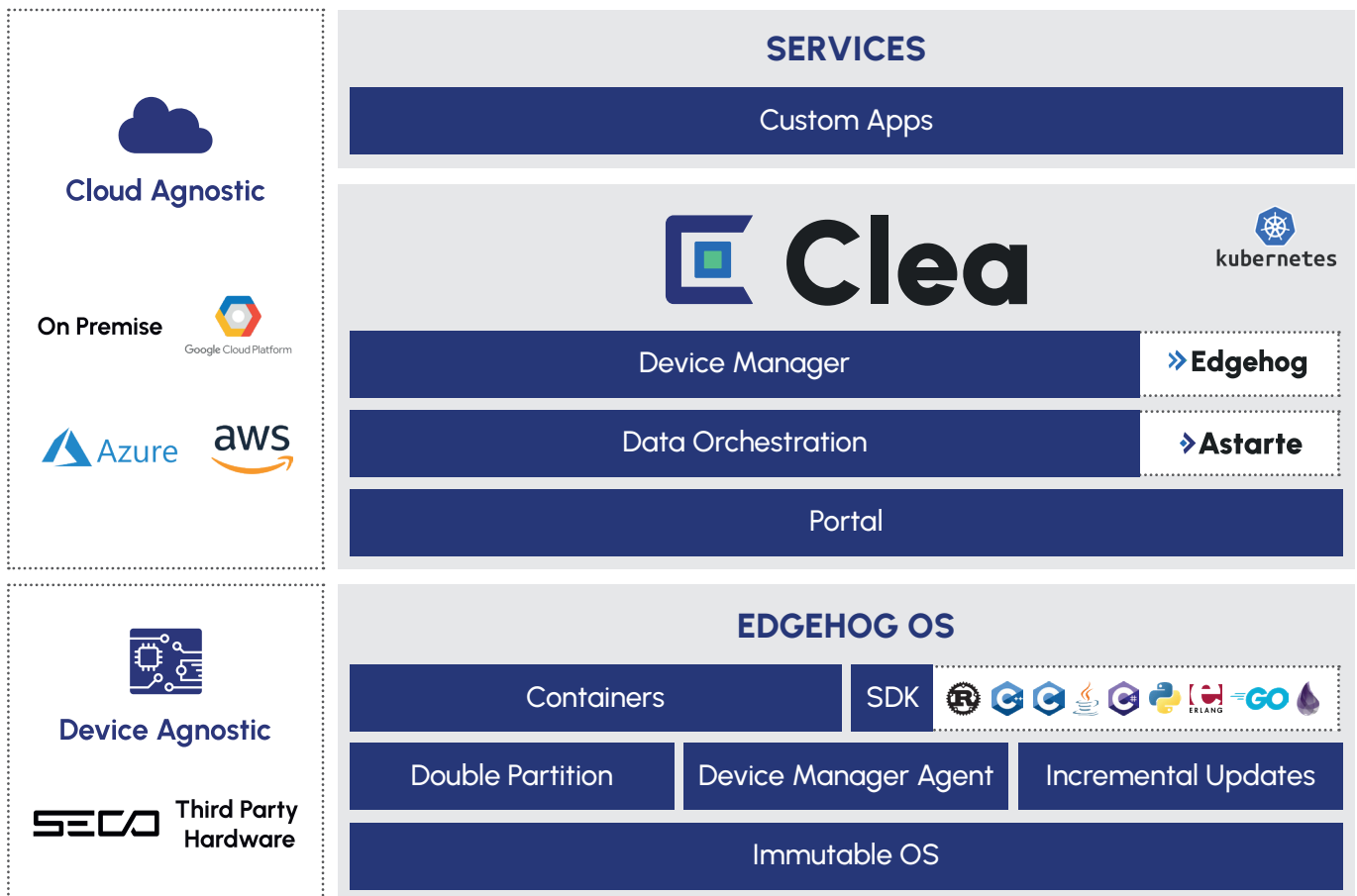
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

