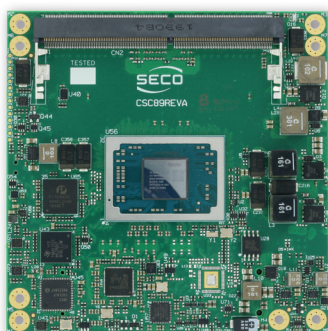




## SOM-COMe-CT6-R1000

COM Express® Rel. 3.0 Compact Type 6 module with the AMD Ryzen™ Embedded R1000 family of SoCs

## Low-end AMD Ryzen™ on COM Express® Type 6 Compact



## HIGHLIGHTS



**CPU**  
AMD Ryzen™ Embedded R1000 processors



**CONNECTIVITY**  
4x USB 3.0; 8x USB 2.0; Up to 5x PCI-e x1; PEG x4 Gen3



**GRAPHICS**  
AMD Radeon™ Vega GPU with 3 Compute Units



**MEMORY**  
Two DDR4 SO-DIMM Slots supporting DDR4-2400 ECC Memory



## MAIN FIELDS OF APPLICATION



Coffee &  
Vending



Medical



Digital Signage

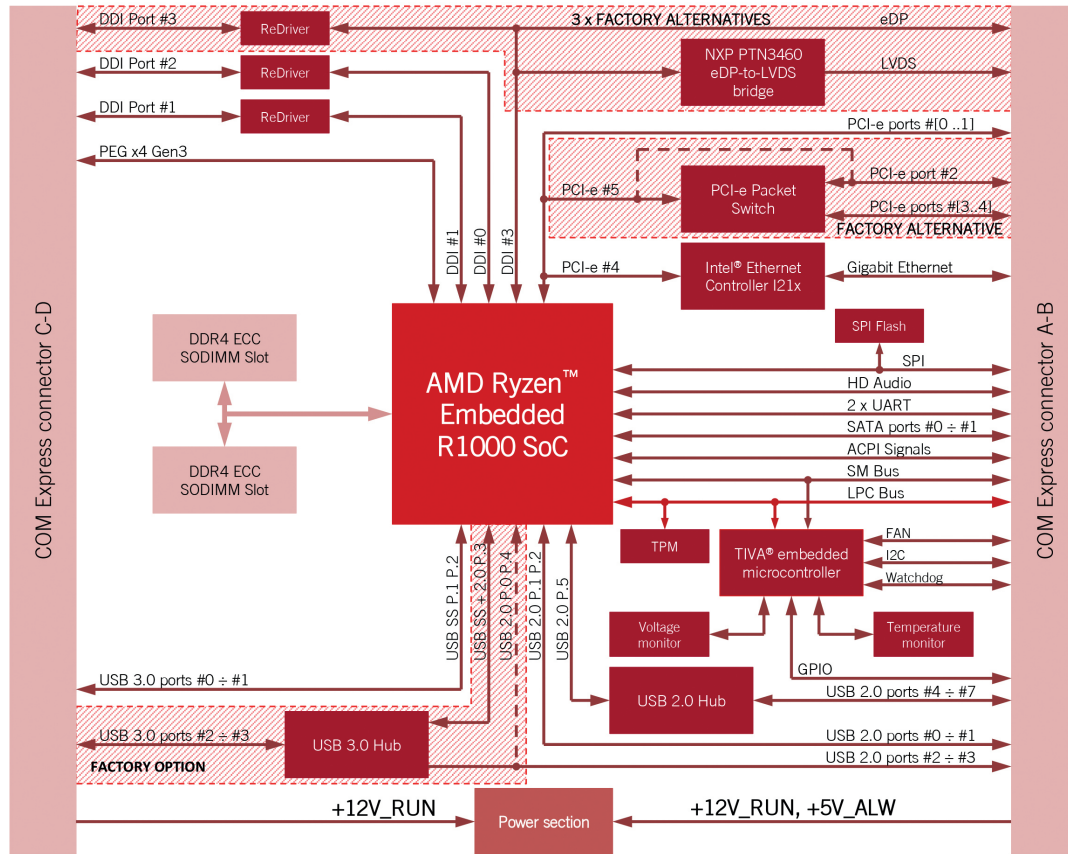
## FEATURES

Processor	AMD Ryzen™ Embedded <b>R1606G</b> with GPU AMD Radeon™ Vega 3, Dual Core Four Thread @ 2.6GHz (3.5 Boost), TDP 12-25W	USB	Up to 4 x USB 3.0 Host ports 8 x USB 2.0 Host ports
	AMD Ryzen™ Embedded <b>R1505G</b> with GPU AMD Radeon™ Vega 3, Dual Core Four Thread @ 2.4GHz (3.3 Boost), TDP 12-25W	PCI-e	2 x PCI-e x1 Gen3 lanes Additional 3rd PCI-e x1 Gen3 lane or 3x PCI-e x1 Gen2 lanes (factory alternatives) PCI-express Graphics (PEG) x4
	AMD Ryzen™ Embedded <b>R1305G</b> with GPU AMD Radeon™ Vega 3, Dual Core Four Thread @ 1.5GHz (2.8 Boost), TDP 8-10W	Audio	HD Audio interface
Max Cores	2	Serial Ports	2 x UARTs
Memory	Two DDR4 SO-DIMM Slots supporting DDR4-2400 Memory, up to 32GB	Other Interfaces	SPI, I2C, SM Bus, LPC bus, FAN management Optional TPM 2.0 module on-board 4 x GPI, 4 x GPO
Graphics	AMD Radeon™ Vega 3 GPU with 3 Compute Units DirectX® 12 supported H.265 (10-bit) decode and 8-bit video encode VP9 decode 3 independent displays supported	Power Supply	+12V <sub>DC</sub> ± 10% and +5V <sub>SB</sub> (optional)
Video Interfaces	Up to 3 x Digital Display Interfaces (DDIs), supporting DP 1.3, DVI and HDMI® 1.4/2.0 eDP or Single/Dual-Channel 18-/24-bit LVDS interface (factory alternatives to third DDI port)	Operating System	Windows 10 64-bit Linux
Video Resolution	DDIs, eDP up to 4K LVDS up to 1920 x 1200 @ 60Hz	Operating Temperature*	0°C ÷ +60°C (Commercial version)
Mass Storage	2 x S-ATA Gen3 Channels	Dimensions	95 x 95 mm (Com Express® Compact Form factor, Type 6 pinout)
Networking	Gigabit Ethernet interface Intel® I21x family GbE Controller	*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.	

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## 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

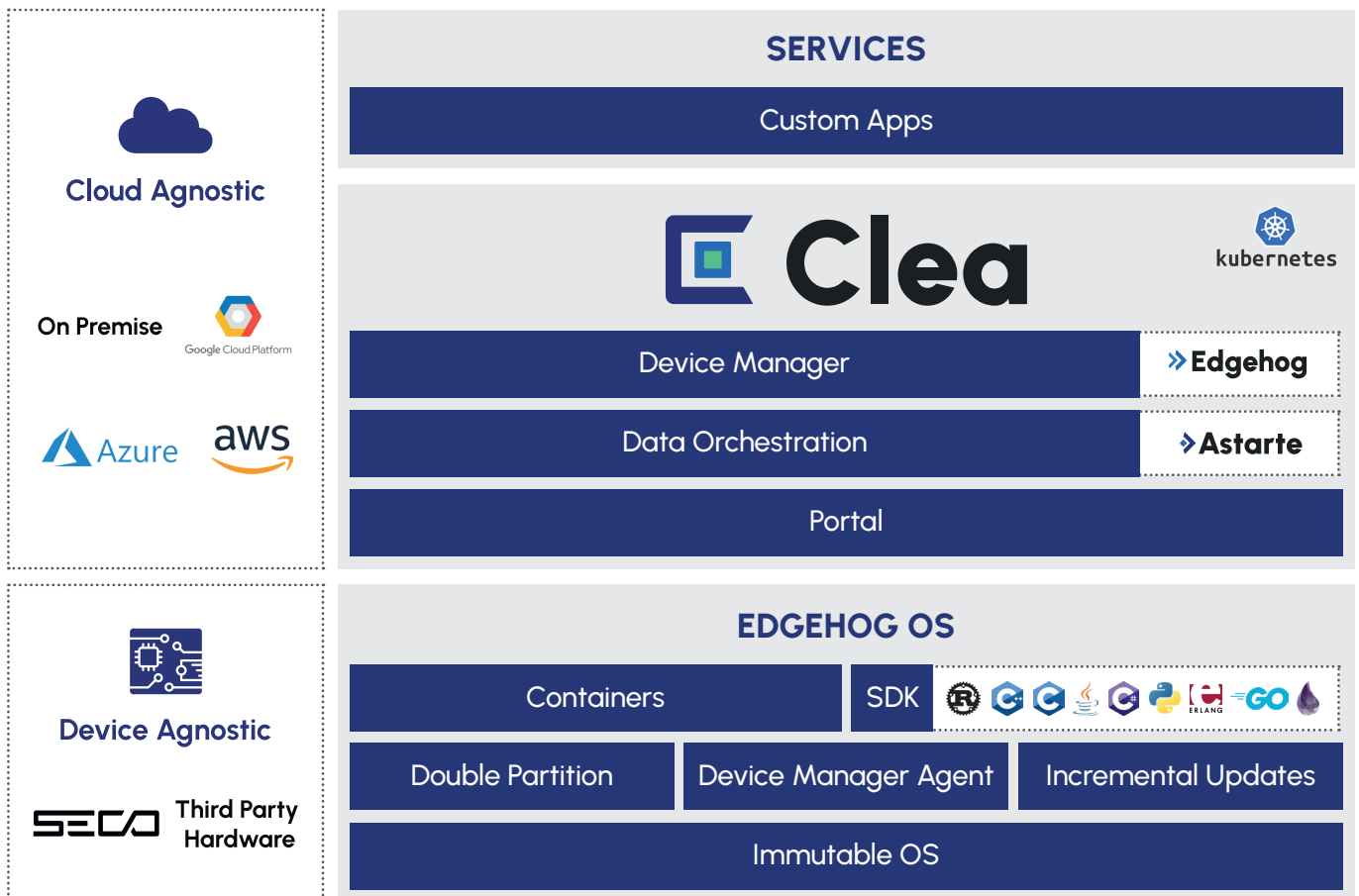
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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.



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EDGEHOG OS



CLEA DOCS

