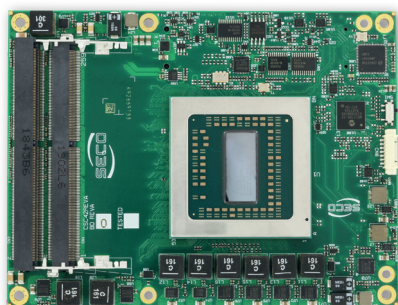




## SOM-COMe-BT7-E3000

COM Express® Rel.3.0 Basic Type 7 module with the AMD EPYC™ Embedded 3000 Series of SoCs

## Scalable offerings with outstanding performance and more connectivity



## HIGHLIGHTS



## CPU

AMD EPYC™ Embedded 3000 family of SoCs



## CONNECTIVITY

4x USB 3.1; 24x PCI-e Gen3 lanes



## NETWORKING

4x 10GBASE-KR interfaces + 1x 1GbE port with NC-SI



## MEMORY

Four DDR4 SO-DIMM Slots supporting DDR4-2666 Memory with ECC, up to 128GB



Available in Industrial Temperature Range



## MAIN FIELDS OF APPLICATION


















Industrial  
Automation



Energy &  
Utilities

## FEATURES

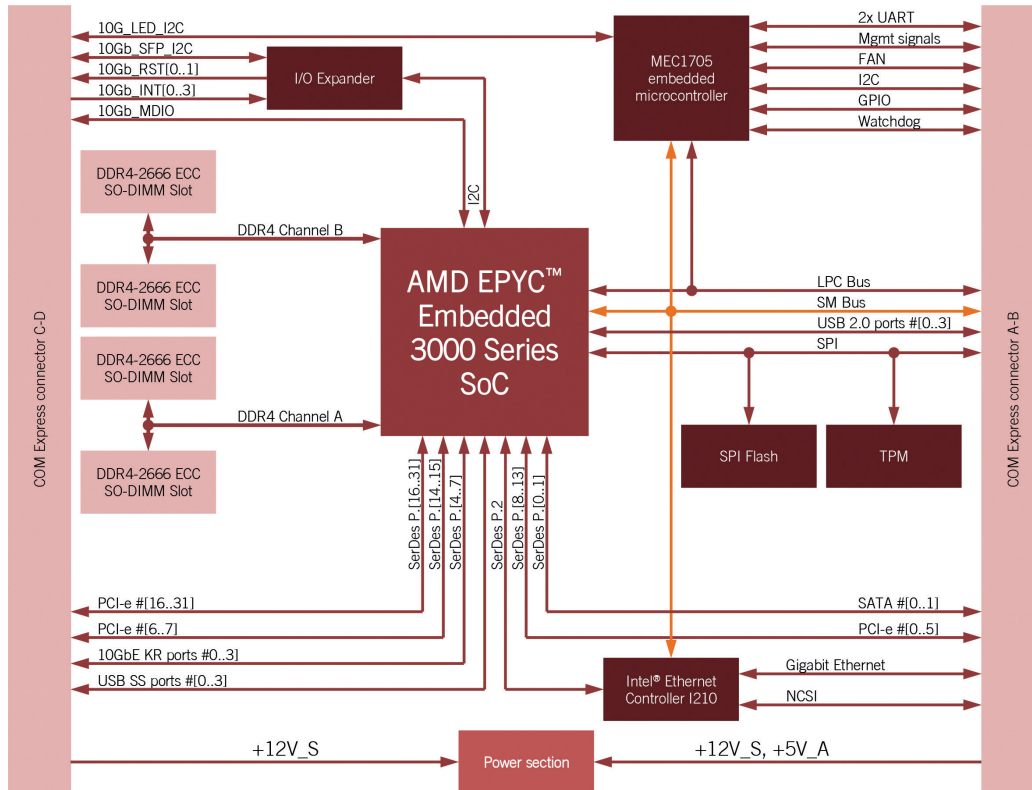
 Processor	AMD EPYC™ Embedded 3000 family of SoCs:	 Security	Optional TPM 2.0 module on-board AMD Secure Processor for Crypto Co-processing Hardware Validated Boot capabilities Secure Memory Encryption Secure Encrypted Virtualization
	<ul style="list-style-type: none"><li>AMD EPYC™ Embedded <b>3451</b>, Sixteen Core Dual Thread @ 2.14GHz (3.0 Boost), 32MB L3 shared Cache, TDP 80-100W</li><li>AMD EPYC™ Embedded <b>3351</b>, Twelve Core Dual Thread @ 1.9GHz (3.0 Boost), 32MB L3 shared Cache, TDP 60-80W</li><li>AMD EPYC™ Embedded <b>3251</b>, Eight Core Dual Thread @ 2.5GHz (3.1 Boost), 16MB L3 shared Cache, TDP 55W</li><li>AMD EPYC™ Embedded <b>3201</b>, Eight Core Single Thread @ 1.5GHz (3.1 Boost), 16MB L3 shared Cache, TDP 30W</li><li>AMD EPYC™ Embedded <b>3151</b>, Quad Core Dual Thread @ 2.7GHz (2.9 Boost), 16MB L3 shared Cache, TDP 45W</li><li>AMD EPYC™ Embedded <b>3101</b>, Quad Core Single Thread @ 2.1GHz (2.9 Boost), 8MB L3 shared Cache, TDP 35W</li><li>AMD EPYC™ Embedded <b>3255</b>, Eight Core Dual Thread @ 2.5GHz (3.1 Boost), 16MB L3 shared Cache, TDP 55W, industrial grade</li></ul>		 Embedded Controller Functionalities
 Memory	Up to 4x DDR4 SO-DIMM Slots supporting DDR4-2666 Memory (both ECC and not-ECC supported), up to 128GB	 BIOS	
 Mass Storage	2x S-ATA Gen3 Channels	 Power Supply	+12V <sub>DC</sub> ± 10% and +5V <sub>SB</sub> (optional)
 Networking	<ul style="list-style-type: none"><li>1x Gigabit Ethernet LAN port with NC-SI (Network Controller Sideband Interface) functionality, managed by an Intel® I210 Gigabit Ethernet Controller</li><li>4x 10Gigabit Ethernet interfaces (10GBASE-KR), directly managed by the EPYC™ SoCs</li></ul>	 Operating System	Microsoft® Windows 10 Microsoft® Windows Server 2016 Linux OS 64-bit
		 Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°÷+85°C (Industrial Range, when available)
 USB	4 x USB 3.1 Host ports (SS + USB 2.0 interfaces)	 Dimensions	125mm x 95mm
 PCI-e	24x PCI-e Gen3 lanes	*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.	
 Serial Ports	2x legacy UARTs, 16C550 compatible		
 Other Interfaces	SPI, SM Bus, LPC bus		

\*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

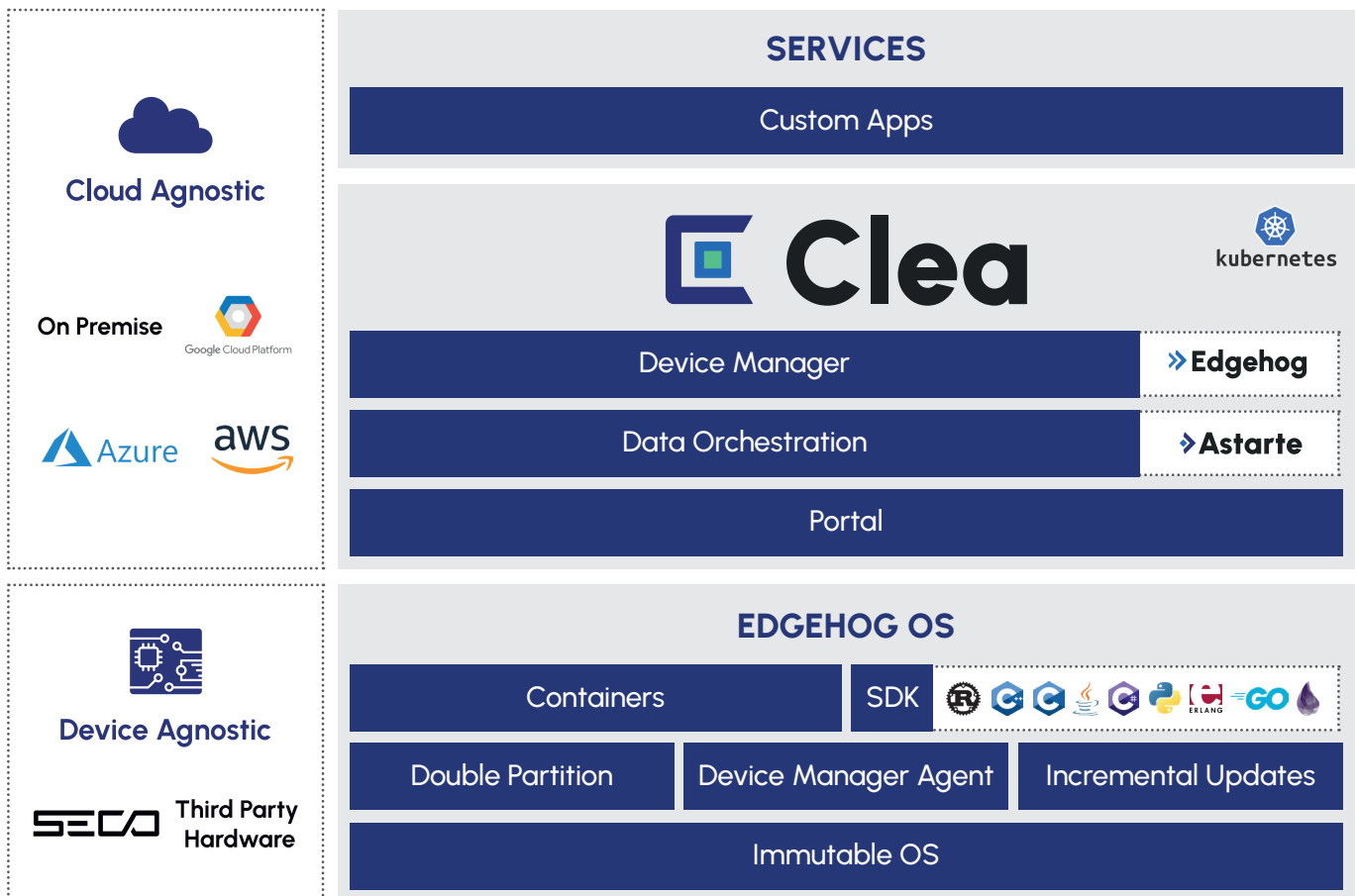
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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.



Scan to know more about our solution

EDGEHOG OS



CLEA DOCS

