



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 SoCsCONNECTIVITY
4x USB 3.1; 24x PCI-e Gen3 lanesNETWORKING
4x 10GBASE-KR interfaces + 1x 1GbE port with NC-SIMEMORY
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

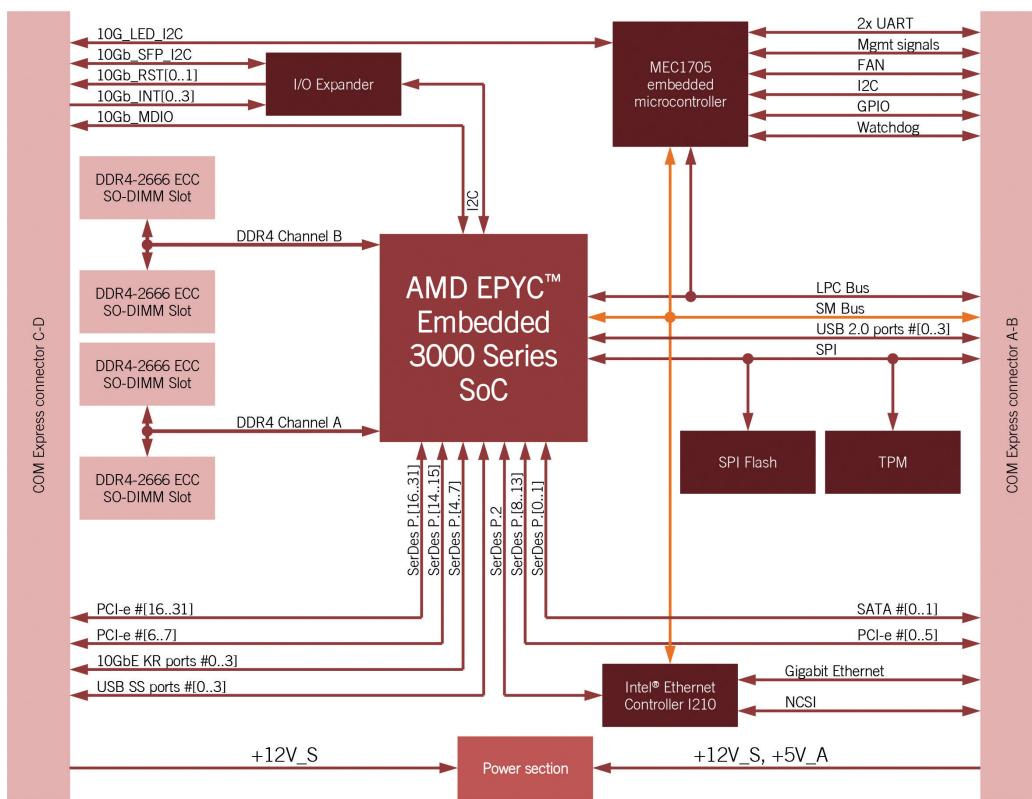
	AMD EPYC™ Embedded 3000 family of SoCs: <ul style="list-style-type: none"> AMD EPYC™ Embedded 3451, Sixteen Core Dual Thread @ 2.14GHz (3.0 Boost), 32MB L3 shared Cache, TDP 80-100W AMD EPYC™ Embedded 3351, Twelve Core Dual Thread @ 1.9GHz (3.0 Boost), 32MB L3 shared Cache, TDP 60-80W AMD EPYC™ Embedded 3251, Eight Core Dual Thread @ 2.5GHz (3.1 Boost), 16MB L3 shared Cache, TDP 55W AMD EPYC™ Embedded 3201, Eight Core Single Thread @ 1.5GHz (3.1 Boost), 16MB L3 shared Cache, TDP 30W AMD EPYC™ Embedded 3151, Quad Core Dual Thread @ 2.7GHz (2.9 Boost), 16MB L3 shared Cache, TDP 45W AMD EPYC™ Embedded 3101, Quad Core Single Thread @ 2.1GHz (2.9 Boost), 8MB L3 shared Cache, TDP 35W AMD EPYC™ Embedded 3255, Eight Core Dual Thread @ 2.5GHz (3.1 Boost), 16MB L3 shared Cache, TDP 55W, industrial grade 		Optional TPM 2.0 module on-board AMD Secure Processor for Crypto Co-processing Hardware Validated Boot capabilities Secure Memory Encryption Secure Encrypted Virtualization
			Multi-Stage Watchdog Timer 2x I2C Advanced FAN management 4x GPIO, 4 x GPO Power State Management Hardware and temperature monitoring POST Code redirection User Data Storage Board statistics: up-time, boot counter, reset cause log
	Up to 4x DDR4 SO-DIMM Slots supporting DDR4-2666 Memory (both ECC and non-ECC supported), up to 128GB		Dedicated embedded BIOS based on AMI Aptio V
			Power Supply +12V _{DC} ± 10% and +5V _{SB} (optional)
	2x S-ATA Gen3 Channels		Microsoft® Windows 10 Microsoft® Windows Server 2016 Linux OS 64-bit
			Operating Temperature* 0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial Range, when available)
	4 x USB 3.1 Host ports (SS + USB 2.0 interfaces)		Dimensions 125mm x 95mm
	2x legacy UARTs, I2C550 compatible		

*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



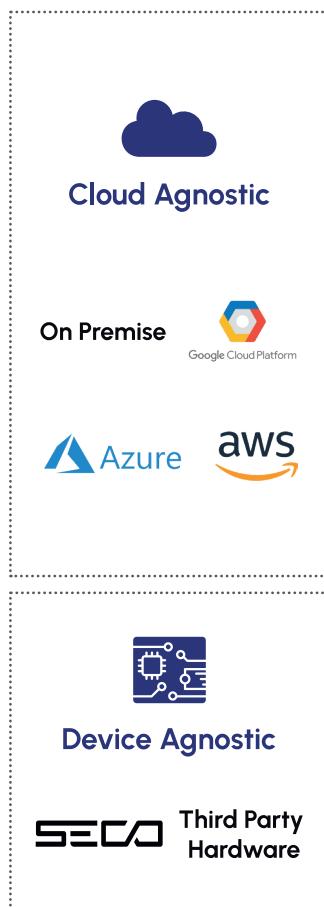
Streamline and expedite your edge computing implementations

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.

SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

Incremental Updates

Immutable OS

Scan to know more about
our solution

EDGEHOG OS



CLEA DOCS

