AMDZ

Unleash Edge Applications. Accelerate Time to Market.

Deliver efficient performance for digital signal processing (DSP)-intensive applications at the edge.

The small-form-factor AMD Kria[™] K24 SOM and KD240 Drives Starter Kit offer a power-, performance-, and cost-optimized solution within the Kria SOM portfolio.

Capture the SOM Advantage



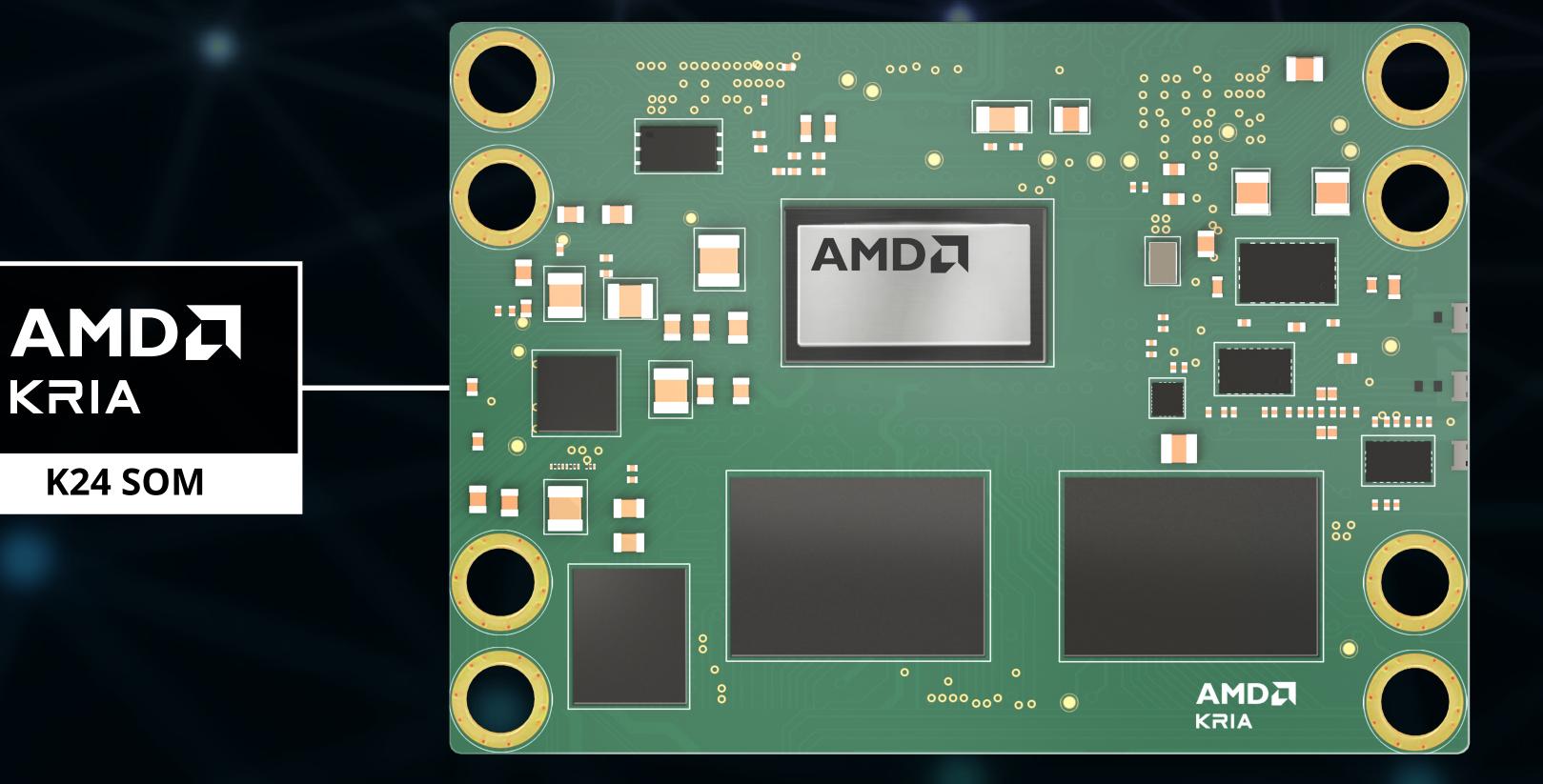
What is a System-on-Module?

SOMs integrate the core components of an embedded processing system on a single production-ready printed circuit board.

The benefits vs. chip-down solutions

- Reduce manufacturing time and materials cost
- Simplify product life cycle management
- Alleviate design complexity and speed development
- Save valuable engineering resources
- Streamline operational flows and manage inventory costs

Develop Efficient Systems—Fast

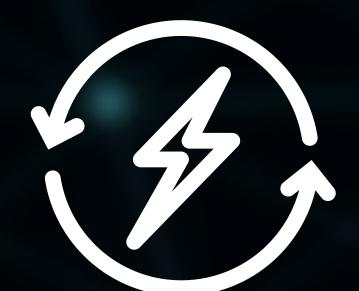




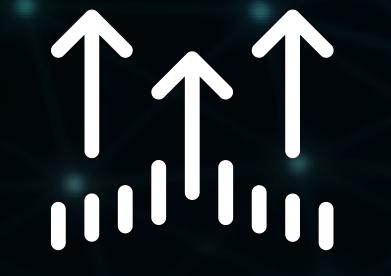
the size of a credit card

2 Iower latency¹

Design, Deploy, and Scale With Ease



Build reliable, power-efficient solutions



- Connects to multiple motors
- 10-year industrial life cycle with ECC-protected memory
- Deterministic processing

Deploy flexible and scalable adaptive systems

- Support for a variety of sensors and peripherals
- Connector compatibility with Kria K26 SOM
- Over-the-air software updates and adaptable hardware

Take the seamless path to volume deployment

- Ready-to-use KD240 Drives Starter Kit
- AMD Vitis[™] accelerated libraries: motor control and more
- Development flows: HDL, C++, ROS 2, AI frameworks, Python, Matlab[®] / Simulink[®]

Save Power and Be Energy Efficient

Deliver edge solutions that are:

Motor control

High-performance •

Power-efficient

• Small in physical size • Long-lasting







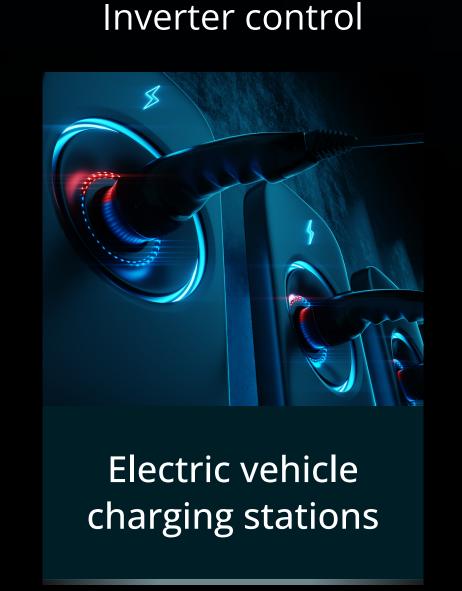


Power generation systems

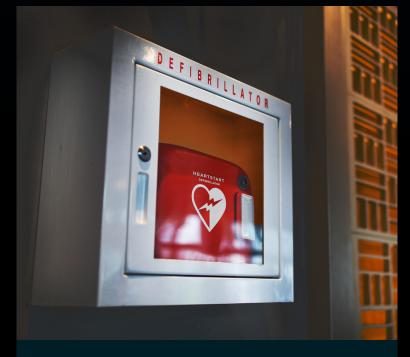
Public transportation

Autonomous industrial robotics

Medical equipment



Sensor fusion and DSP



Handheld medical devices

AMD Kria K24 SOM

Advancing solution development, deployment, and performance

Discover Kria K24 SOMs

Explore the KD240 Starter Kit

 Based on AMD internal analysis in August 2023, using the latency results reported by TI for a full control loop implementation on a Texas Instruments AM64xx standard SOC using a Texas Instruments benchmark vs. the latency results of a full control loop implementation using a Field Oriented Control algorithm designed by Qdesys. System configuration for the TI AM64xx SOC system: TMDS64EVM board; configuration for the Kria K24 SOM system: KD240 starter kit. The latency advantage improves up to 7X as the number of motor axes increases. Actual results will vary. (SOM-003)

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