

Mistral Unveils Revolutionary Edge AI-Box

Compact, Low-power AI Engine Powering Machine Vision Applications at the Edge

Bangalore, India, Thursday, 04 April 2024 - Mistral, a leading embedded design and system engineering company, is proud to announce the launch of its groundbreaking Machine Vision and Edge Computing platform, the **Edge AI-Box**. This high-performance Industrial Computer is set to redefine AI powered solutions, offering unparalleled computing power with ultra-low power consumption.

The Mistral Edge AI-Box is meticulously crafted around the Qualcomm® QRB5165 platform, boasting an octa-core Qualcomm® Kyro™ 585 CPU clocked at 2.84 GHz, Qualcomm® Adreno™ 650 GPU, Qualcomm® Hexagon™ 698 DSP, and a host of other cutting-edge components. Leveraging the 5th-Gen Qualcomm® Artificial Intelligence Engine, this innovative solution delivers a staggering 15 TOPS of AI performance, enabling seamless execution of complex AI and deep learning workloads directly at the edge.



"Mistral's Edge AI-Box represents a significant leap forward in Edge AI computing," said Mujahid Alam, CEO of Mistral. "With its superior computing power, real-time analytics capabilities, and enhanced on-device data security, our solution is poised to transform computing and accelerate the adoption of AI-driven technologies across various industries."

Key features of the Mistral Edge AI-Box include:

High Performance ML with Power Efficiency: Leveraging advanced hardware and software components, the Edge AI Box delivers high-performance machine learning capabilities while ensuring optimal power efficiency.

Real-Time Analytics and Insights: The platform enables real-time analysis of data streams, providing actionable insights for enhanced decision-making.

Enhanced On-Device Data Security and Privacy: With robust security features, including secure boot and hardware-based encryption, data integrity and privacy are prioritized.

Reduced Latency: By processing data directly at the edge, latency is minimized, ensuring rapid response times critical for time-sensitive applications.

Multi-Connectivity and Interfaces: The Edge AI Box offers flexible connectivity options, including Gigabit Ethernet, 5G, Wi-Fi, and more, ensuring seamless integration into diverse network environments.

Customization & Flexibility: Built for adaptability, the platform supports customization to meet specific application requirements, offering unparalleled flexibility.

Adaptability to Edge Environments: Designed for rugged environments, the Edge AI Box operates reliably across a wide range of temperatures and conditions.

Supports Six Concurrent Cameras: Supports Six Concurrent Cameras: With support for up to six concurrent cameras, including high-resolution, global shutter, and Time-of-Flight (ToF) cameras, the platform is ideal for a wide range of machine vision and video analytics applications, such as traffic monitoring, facial recognition, automated inspection, and more. Additionally, the Sony industrial block camera comes pre-integrated and supported with AI capabilities.

“We are delighted to announce the Edge AI-Box, powered by the cutting-edge Qualcomm® QRB5165 SoC. With its multiprocessing capability and advanced machine vision prowess, this powerful low-power AI Engine is expected to revolutionize Edge Processing and Industrial Computing Applications”, said Selvaraj Kaliyappan, VP - Engineering, Mistral Solutions.

With integrated Ubuntu core and ROS framework packages, alongside Qualcomm Technologies' Vision and Robotics SDK, the Edge AI-Box unlocks unparalleled potential for innovation across sectors, from smart cities to transportation. With 15 TOPS, it stands as a beacon of efficiency and power at the edge, empowering the next generation of smart robots, autonomous machines, and intelligent devices.

For more information about the Edge AI-Box, please visit <https://www.mistralsolutions.com/edge-ai-box/>

The Edge AI-Box will be shortly available on Mistral webstore. For pricing and orders, write to info@mistralsolutions.com.

About Mistral:

Mistral is a globally recognized technology design and systems engineering company delivering high-performance products and services across various industries. Mistral is focused in three business domains: Product Engineering Services, Aerospace & Defence and Homeland Security. Mistral provides total solutions for a given requirement, which may include hardware design, embedded software development, systems integration and customized turnkey solutions.

Mistral's Product Engineering Services are delivered through a proven development process, designed for embedded product development. Mistral's hardware and software team works together in a seamless manner providing expert product designs covering board and FPGA Designs, BSP and Firmware developments, Embedded Application developments, integration of 3rd party solutions, testing & validation, product prototyping, production coordination and product sustenance services.

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