Mistral Launches AI-SFK Lite Sensor Fusion Kit Powered by the NVIDIA Jetson Edge AI Platform

A pared-down version of Mistral's AI-SFK Sensor Fusion Kit, the AI-SFK Lite is designed to help customers realise powerful vision AI solutions amidst the global chip shortage

Bangalore, India, and Fremont, CA, Wednesday, 16 March 2022: Mistral Solutions, a leading embedded design and system engineering company, today announced the launch of AI-SFK Lite, a feature-rich, performance-oriented Camera Vision and mmWave RADAR fusion platform. Built around the NVIDIA® Jetson™ Xavier NX system-on-module (SoM), the new sensor fusion kit is ideal for developers and customers deploying products that meet the compelling needs of modern AI, deep learning, and video analytics applications.

The AI-SFK Lite variant of Mistral's AI-enabled Sensor Fusion Kit (AI-SFK) consists of Neuron Base with NVIDIA Xavier NX SoM.

Mistral has released the new AI-SFK Lite to address the global shortage of controller chipsets for GMSL and FPD Link interfaces. The AI-SFK will cater to the market needs and offer an affordable development platform to customers worldwide without compromising on performance and capabilities.

The AI-SFK Lite is designed to provide range precision along with superior imaging capabilities for AI-based machine vision applications such as edge camera with object detection and recognition, human activity recognition, smart retail solutions, Industry 4.0, radar-camera sensor fusion, robotics, and ADAS among others.

Highlights

- Powered by NVIDIA Jetson Xavier NX
- 77GHz Radar Module based on AWR1843 ES2.0 single chip FMCW RADAR sensor SoC
- Sony's iMX219 from Leopard Imaging
- M.2 M key based 250GB SSD
- GigE, Wi-Fi 802.11 a/b/g/n/ac and BT 5.0
- Supports Ubuntu 18.04 Linux OS natively
- OpenCV, VisionWorks, TensorRT, LibArgus, CUDA, CuDNN, ROS1 Melodic

"It's a known fact that the global semiconductor chip shortage is hampering a wide range of industries.

As engineering brains worldwide are pulling out all the stops to minimise damage due to the crisis, AI-SFK Lite is a gentle push from Mistral to support and enable product development companies to continue their AI-focused product development," said Selvaraj Kaliyappan, VP - Engineering. "The AI-SFK Lite, a pared-down version of our AI-enabled Sensor Fusion Kit, is an Optical Vision and mmWave RADAR fusion platform that integrates all essential components and brings out key interfaces of the NVIDIA Jetson Xavier NX module."

The AI-SFK Lite consists of Mistral's Neuron Base Board (NB-Basic) paired with the NVIDIA Jetson Xavier NX SoM along with Mistral's 77GHz mmWave RADAR Module and a Camera Module (CSI-based 8 MP / 4K colour sensor) supporting up to 21 fps. The board also supports the NVIDIA JetPack SDK 4.6, which enables the development of AI applications with accelerated libraries supporting all major AI frameworks as well as computer vision, graphics and multimedia among others.

For more information, visit www.mistralsolutions.com/sfk-lite

The AI-SFK Lite is priced at $1,450 and can be ordered on Mistral's webstore.

(https://www.mistralsolutions.com/product/ai-sfk-lite/)

For customization and other queries, please contact sales@mistralsolutions.com.

About Mistral

Mistral is a technology design and systems engineering company providing end-to-end solutions for product design and application deployment. 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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