

# Mistral Launches Neuron – Base Card for NVIDIA Jetson SoMs

**Scalable Development Platforms designed to meet the compelling needs of modern AI, Deep Learning, and inference at the edge**

**Bangalore, India and Fremont, CA, Wednesday, 14 October 2020:** Mistral Solutions, a leading embedded design and system engineering company today announced the launch of Neuron Base Boards, a family of feature-rich, performance-oriented product development solutions for NVIDIA's Jetson Nano and Jetson Xavier NX SoMs. The Neuron Base is designed to enable all the functional features of NVIDIA Jetson SOMs and aid faster product development and prototyping.

Mistral's Neuron platform is ideal for realizing AI-based machine vision applications such as Edge Camera with object detection and recognition, Human Activity Recognition, Robotics, Drones, Autonomous Navigation, Radar-Camera Sensor Fusion and Smart Retail among others. The Neuron Board is available in two Variants - *NB Basic* and *NB Turbo*. The NB Basic brings out the basic required interfaces and connectivity of the Jetson SOM like Ethernet, CSI, USB, HDMI, M.2 M, mmWave RADAR etc. The NB Turbo is richer in terms of functional features and interfaces like GMSL, FPD Link III, Wi-Fi 802.11, Bluetooth, and 9-axis IMU Sensors in addition to all features of NB Basic.

## Highlights

- Common Architecture compatible with NVIDIA Jetson Nano & NVIDIA Jetson Xavier NX
- Flexible and scalable platform
- Connectivity to mmWave RADAR for Sensor Fusion Applications
- On Board Wi-Fi & BT 5.0
- Supports NVIDIA JetPack SDK

The Neuron Board is complemented by a range of Vision Analytics Algorithms that uses NVIDIA's CUDA, cuDNN and TensorRT components. Mistral has partnered with INKERS, a Deep Video Processing company, to integrate these algorithms on Neuron Board, making it for Retail Analytics, Security, and other AI applications.



"The Neuron Base is one of Mistral's key releases in 2020 and is our flagship solution based on NVIDIA platforms. These boards address all crucial requirements needed to design, develop, and prototype embedded edge computing devices that demand high-performance factors and run complex AI

workloads. Our aim is to enable customers to drastically reduce the overall development time and cost while developing robust, power-efficient AI products", said Daniel Noal, VP - North America Operations, Mistral Solutions.

“Mistral’s Neuron Base Boards support NVIDIA JetPack SDK, which enable the development of AI applications with accelerated libraries supporting all major AI frameworks as well as computer vision, graphics and multimedia, among others. Mistral also offers the Neuron Development Kit (Neuron Base Board integrated with the Jetson SoM) for quick product development. By integrating Neuron Base with our mmWave RADAR and an off-the-shelf Camera module, developers can realize Camera-Radar fusion solutions for Industrial and Automotive applications.” Selvaraj K, VP- Engineering (PES), Mistral Solutions.

With our expertise on the NVIDIA Jetson platforms and Vision Analytics algorithms, we can help customers with their application needs providing custom engineering services for design and development of NVIDIA Jetson based solutions like Edge Cameras, Media Gateway, Autonomous Navigation and other AI/ML and Computer Vision applications.

For more information, visit [www.mistralsolutions.com/neuron](http://www.mistralsolutions.com/neuron). For pricing and custom design services, please contact [sales@mistralsolutions.com](mailto: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 work 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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