PRESS RELEASE
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e-con Systems® Launches AI-Powered Vision and Compute Solutions Accelerated by NVIDIA Jetson Thor

Tags: NVIDIA Thor | Jetson Thor | e-con Systems | Edge AI | AI Cameras | Holoscan | Embedded Vision | Humanoids | Robotics | AMRs | Robust ECU | Compute Box | Multi-Sensor Fusion | Real-Time Imaging

California & Chennai (August 25, 2025): e-con Systems®, a global leader in embedded vision solutions, announces support for the newly launched NVIDIA Jetson Thor series, covering a comprehensive range of vision solutions including USB Series, RouteCAM GigE series, 10G Holoscan Camera solutions and robust ECU platform **purpose-built for real-time edge AI applications.** This strategic expansion enables high-performance, AI-accelerated edge imaging solutions across industries.

NVIDIA **Jetson Thor** modules deliver up to 2070 FP4 TFLOPS of AI compute, offering a high-performance platform for next-generation robotics and AI-enabled machines. e-con's vision portfolio fully supports Thor's capabilities with multi-sensor fusion, ultra-low latency, and resolutions up to 20 MP—accelerating development in industrial, automotive, medical, and humanoid robotics applications.

e-con Systems' Camera Portfolio for NVIDIA Jetson Thor

As part of its NVIDIA Jetson Thor support, e-con Systems is launching a versatile range of camera solutions across key interface options:

- **See3CAM USB Cameras** for rapid development and evaluation
- **RouteCAM Ethernet Cameras** with **ONVIF compliance**
- Compact 10G e-con HSB leveraging Camera Over Ethernet (CoE) Protocol: Powered by e-con's camera modules and custom designed **HSB board** with **FPGA-based TintE ISP,** this solution supports ultra-low latency and various sensors up to 20MP resolution. Camera over Ethernet (CoE) enables direct data transfer to GPU memory with virtually zero CPU utilization, enabling quicker response times and real-time operation.

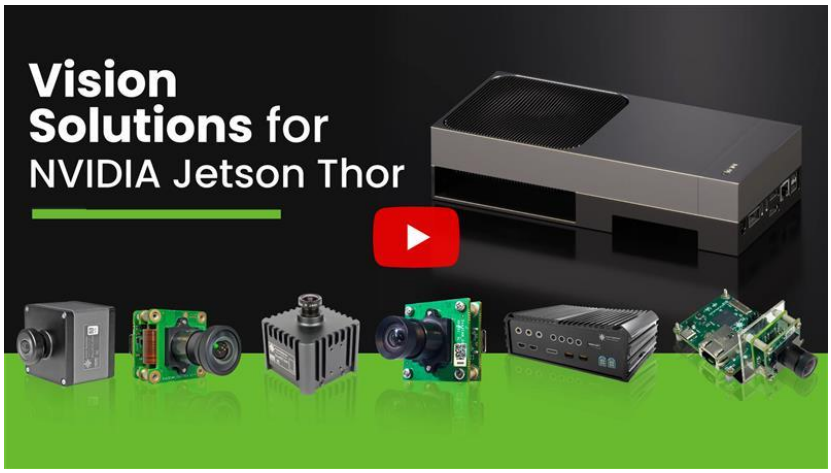
Fig: e-con Systems Holoscan Camera Solution with NVIDIA Jetson Thor

e-con Systems supports a wide range of sensors—including Sony IMX715, Sony IMX568, onsemi AR0234, Sony IMX900, AR2020 and Sony ISX031—across its Holoscan-ready solutions, empowering developers to fully leverage the NVIDIA Jetson Thor platform for next-generation AI vision applications.

Robust ECU for Real-time AI at the Edge

Alongside its advanced camera offerings, e-con Systems introduces a **compact,** production-ready ECU platform with **NVIDIA Jetson Thor**. This robust compute unit is purpose-built to support **real-time reasoning and sensor processing** in the field, making it an ideal fit for **autonomous mobile robots (AMRs)**, **humanoids**, and other **AI-enabled machines**. It

ensures efficient processing of high-resolution imaging data, enabling faster decision-making and deployment in dynamic edge environments.



https://www.youtube.com/watch?v=P41dn7oemuQ

"We are excited to bring our latest portfolio of vision and complete compute solutions to the NVIDIA Jetson Thor platform. With support for multiple interfaces, real-time processing, and AI-enabled superior imaging, our Thor-compatible solutions empower developers to accelerate innovation in robotics, autonomous systems, and next-gen edge AI applications. Our compact e-con 10Gbit/s HSB board, featuring a proprietary TintE ISP, enables ultra-low latency imaging and multi-sensor flexibility while efficiently offloading image processing from the NVIDIA GPU—freeing up compute resources and optimizing performance for AI-driven tasks across industries." said Prabu Kumar Kesavan, CTO at e-con Systems.

e-con has also outlined a roadmap to extend support for **stereo cameras** using the same 10G sensor processing board powered by Holoscan Sensor Bridge—ideal for depth-sensing, obstacle detection, and other advanced perception use cases.

Availability

To evaluate the capabilities of NVIDIA Jetson Thor-compatible cameras and ECUs, please visit our online web store and purchase the product.

Customization and Integration Support

e-con Systems offers customization services and end-to-end integration support for the cameras and compute box, ensuring that unique application requirements can be easily met. For customization or integration support, please contact us at camerasolutions@e-consystems.com.

About e-con Systems

e-con Systems® designs, develops, and manufactures OEM cameras. With 20+ years of experience and expertise in embedded vision, it focuses on delivering vision and camera solutions to industries such as retail, medical, industrial, mobility, agriculture, smart city, and more. e-con Systems' wide portfolio of products includes Time of Flight cameras, MIPI camera modules, GMSL cameras, USB 3.1 Gen 1

cameras, stereo cameras, GigE cameras, HDR cameras, low light cameras, and more. Our cameras are currently embedded in over 350+ customer products, and we have shipped over 2 million cameras to the United States, Europe, Japan, South Korea, and many other countries.

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