PRESS RELEASE
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e-con Systems Expands Camera Support for Renesas' New RZ/G3E – Enabling Reliable Edge AI Vision Solutions

Tags: Edge AI | Low Power | Sony STARVIS | Full HD | Industrial Vision | RZ/G3E | Renesas | RZ/V2H | onsemi | industrial automation | smart city | Automotive
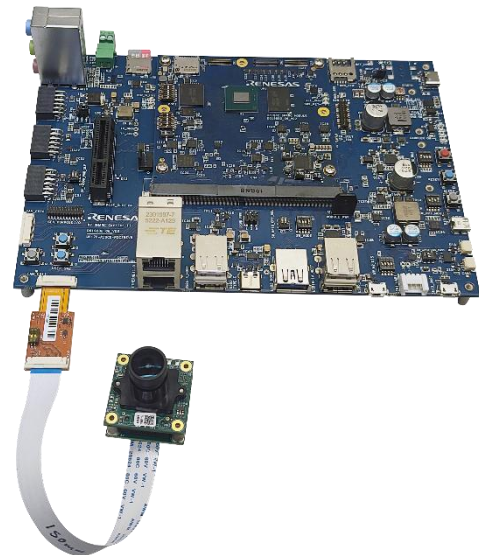
California & Chennai (Aug 27, 2025) – e-con Systems®, a leading embedded vision solutions provider, announces camera support for Renesas' latest RZ/G3E microprocessor, strengthening its partnership with Renesas in powering next-generation embedded vision applications such as industrial automation, smart city, automotive and more. Building on our successful integration with Renesas' RZ/V2N and RZ/V2H processors, e-con Systems now brings its field-proven, production-ready camera modules to the newly launched RZ/G3E microprocessor.

The RZ/G3E microprocessor, part of Renesas' scalable MPU portfolio, is engineered for low-power edge computing and advanced graphics-rich and vision-based applications, offering dual-display support, secure connectivity, and a high-performance Arm® Cortex®-A55 processor.

As part of its RZ/G3E-compatible offerings, e-con Systems provides:

- **e-CAM22_CURZH** – Full HD ultra-low light color camera with Sony® STARVIS™ IMX462 sensor. This camera excels in capturing high-quality images in challenging lighting conditions.

- **e-CAM25_CURZH** – Full HD Global Shutter camera with onsemi® AR0234 sensor. Its global shutter capability, combined with a 120 fps frame rate, minimizes frame-to-frame distortion, ensures distortion-free imaging for fast-moving objects.

Both cameras are equipped with a built-in ISP (Image Signal Processor), fully aligned with Renesas' integration requirements for RZ/G3E. These modules are compatible with the RZ/G3E evaluation kit, and they are available for immediate evaluation.

Setup: e-con camera connected to RZ/G3E kit

"The Renesas RZ/G3E MPU's advanced edge computing and low-power features align perfectly with our camera technology, enabling developers to build reliable and high-quality AI vision systems that operate efficiently even in demanding scenarios. Our collaboration with Renesas continues to drive innovation across industrial automation, robotics, and smart surveillance markets." said Suresh Madhu, Head of Industrial Business Unit at e-con Systems.

"The Renesas RZ/GE is developed to target intelligent edge computing integrated with full graphics and high-speed capabilities including an Arm Ethos-U55 neural processing unit," said Daryl Khoo, Vice President, Embedded Processing Product Group at Renesas. *"We expected this collaboration with e-Con will help customers in the Vision AI market to simplify their design in order to realize faster time to market."*

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Availability

To evaluate the capabilities of e-CAM22_CURZH and e-CAM25_CURZH, 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 e-CAM22_CURZH and e-CAM25_CURZH cameras, 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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