

e-con Systems Collaborates with Renesas to Deliver Cutting-Edge Embedded Camera Solutions Powered by the RZ/V2L Microprocessor

Chennai (Oct 5, 2023) - [e-con Systems](#), a global pioneer in designing, developing, and manufacturing embedded camera solutions, has announced its collaboration with Renesas, a worldwide leader in advanced semiconductor solutions. Through this collaboration, e-con Systems will offer high-performance embedded camera solutions that leverage the capabilities of the Renesas RZ/V2L microprocessor. These solutions can be easily integrated into various applications for use cases like smart agriculture, self-checkout, smart traffic, sports analytics, and a lot more.

Some of the key camera solutions offered by e-con Systems for Renesas RZ/V2L include:

Global Shutter Camera: This full HD custom lens camera is based on the 1/2.6” AR0234CS CMOS image sensor from onsemi. It houses the e-CAM217_CUMI0234_MOD – a full HD fixed focus MIPI camera module that plugs directly into the Renesas RZ/V2L development kit. With global shutter technology and an on-board high-performance ISP, e-CAM20_CURZ helps capture fast-moving objects with precision and clarity. Hence, it can add significant value to use cases like people counting, smart traffic, smart-checkout and more.

Know more: [e-CAM20_CURZ](#)

Ultra-Low-Light Camera: This full HD color camera module is based on the 1/2.8” Sony Starvis IMX462 CMOS image sensor. It supports the UYVY image format and comes with an S-mount (also known as M12 board lens) lens holder. e-CAM21_CURZ can be directly interfaced to the CN1 connector of the Renesas RZ/V2L development kit. With powerful features for ultra-low-light performance (even 0 Lux) like high sensitivity, this color camera is perfect for night-vision applications and medical microscopes.

Know more: [e-CAM21_CURZ](#)

The Renesas RZ/V2L is a vision AI microprocessor boasting low power consumption and reduced thermal output. It is equipped with Renesas’ proprietary AI accelerator – the DRP-AI (Dynamic Reconfigurable Processor). Featuring a 1.2GHz dual-core processing capability, the RZ/V2L is designed to meet the demands of modern embedded AI applications, including industrial and IoT devices, while ensuring seamless power and thermal management.

“We are thrilled about this collaboration with Renesas, as it is a testament to our commitment to drive innovation in the embedded camera space. By harnessing the power of the Renesas RZ/V2L microprocessor, which excels in low-end platform performance per watt, we aim to deliver superior vision solutions that not only offer high performance but also practical energy usage. These solutions seamlessly fit into business-critical applications, from transforming agricultural practices to revolutionizing retail experiences and enhancing traffic management. Together, e-con Systems and Renesas are setting the benchmark for the future of energy-efficient, intelligent camera technology,” said Suresh Madhu, Head of Product Marketing at e-con Systems.

Think Camera. Think e-con.



“The combination of e-con’s camera solution and our RZ/V2L microprocessor enables customers to easily develop vision AI applications and accelerate time-to-market,” said Shigeki Kato, Vice President of the Embedded Computing Division at Renesas. “As we continue to expand the RZ/V2L portfolio and collaborate closely with e-con to cater to diverse vision AI applications, our integrated solutions can contribute to the widespread adoption of embedded AI systems.”

For more information on e-con Systems, please visit <https://www.e-consystems.com/renesas-cameras.asp>

To learn more about Renesas’ RZ/V2L, please visit <https://www.renesas.com/rzv2l>.

To learn more about Renesas RZ Partner Ecosystem Solutions, please visit [e-CAM20](#) and [e-CAM21](#)

About e-con Systems:

e-con Systems has been a pioneer in the embedded vision space; designing, developing and manufacturing custom and off-the-shelf camera solutions since 2003. Our wide portfolio of products includes MIPI camera modules, GMSL cameras, USB 3.1 Gen 1 cameras, TOF cameras, stereo cameras etc. e-con offers a wide variety of cameras with low light performance, HDR, global shutter, etc. These cameras range from a resolution of 2MP up to 20MP. So far, we have shipped over 2 million cameras to the United States, Europe, Japan, South Korea and many more countries.

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