RZ Ecosystem Partner Solution
ARIES Embedded MSRZG3E

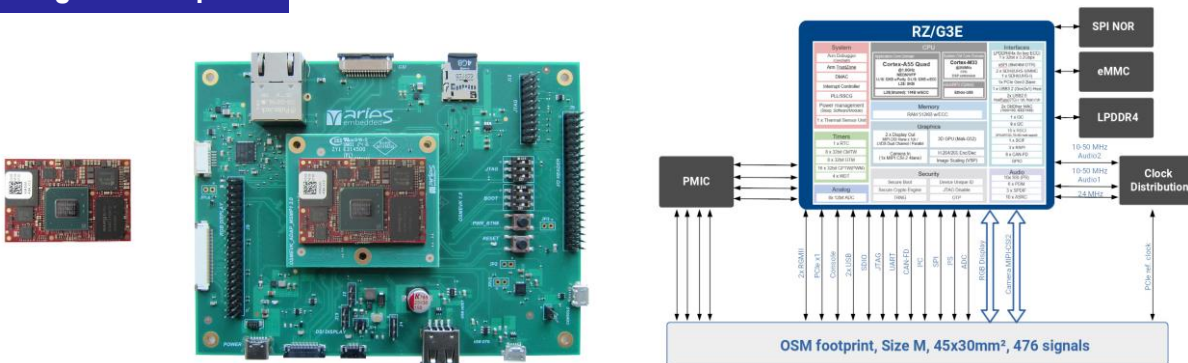## Solution Summary

The MSRZG3E is the Open Standard Module compliant System-In-Package based on Renesas RZ/G3E scalable architecture. It provides optimal values for performance, functionality and power efficiency at the same time. The connector-less OSM formfactor supports machine-only production for both SoMs and baseboards and enables highest cost efficiency for the final customer products. The available multimedia codecs, 3D-graphics engine and optional NPU predestine it for a broad range of multimedia and AI-related applications as well as the use in an industrial environment.

Features/Benefits

- Ready-to-use building blocks (hardware & software) to be integrated on specific baseboards
- Compatible with all OSM size M SoMs, easy exchange in your existing design to use a MSRZG3E.
- Flexible OSMEVK reference baseboard for development and prototyping.
- Profound technical support during development phase, baseboard design services on demand
- Smallest form factor with Quad Core Performance offers extensive CPU functionality OSM size M, 30x45mm², 476 contacts
- On demand custom processor-, temperature- and memory-configurations available.
- Custom SoM derivatives, adding special interfaces, or custom board implementation in a different size or geometry offered.
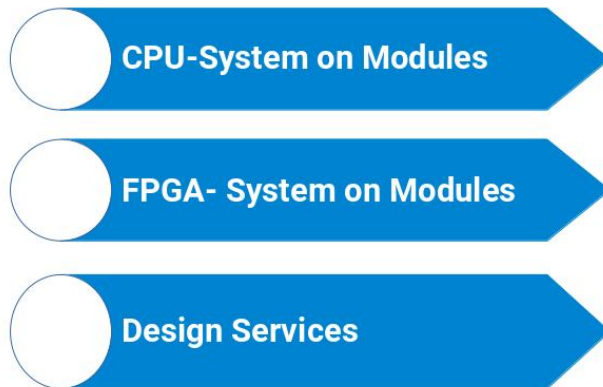- Temperature range -25°C..+70°C ,optional -40°C..+85°C

Diagrams/Graphics

Target Markets and Applications

- Industrial controls
- Mobile applications
- Human machine interfaces
- Healthcare
- Smart city
- Infrastructure

www.aries-embedded.com/system-on-module/rzg3e-renesas

2025.07

![ARIES embedded — Intelligence for Industry]

ARIES Embedded at a Glance

- CPU-System on Modules
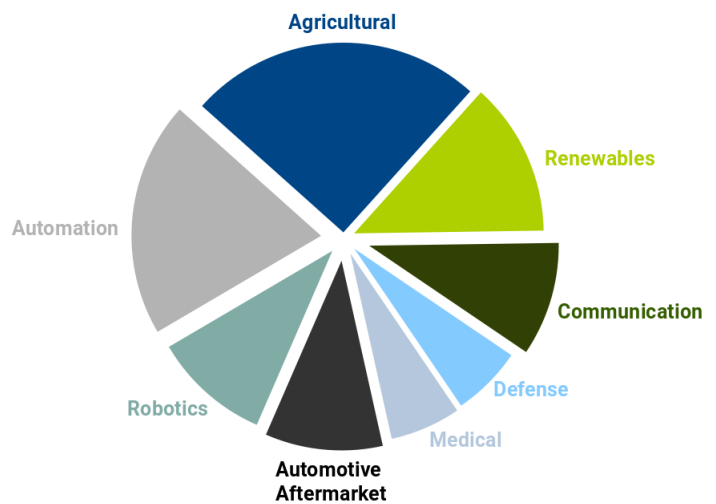- FPGA- System on Modules
- Design Services

Worldwide Customer Base

ARIES Embedded, located in the Munich area, provides professional solutions in the area of Embedded Systems. From a very first idea to the final product, ARIES Embedded serves customers worldwide in various markets as Automation Technology, Industry, Medical, Farming and Space Applications.

ARIES Embedded customers benefits with

- a shorter time to market
- a lower invest and risk for complex product developments
- top-edge technology for competitive products
- flexible use of technology based on product customizations

Contact: sales@aries-embedded.de

Web: www.aries-embedded.com

Agricultural
Renewables
Communication
Defense
Medical
Automotive Aftermarket
Robotics
Automation