



RZ Ecosystem Partner Solution

MXT RZ/V2L and RZ/G2L LGA SoM



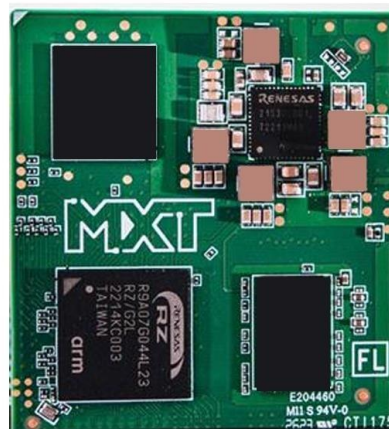
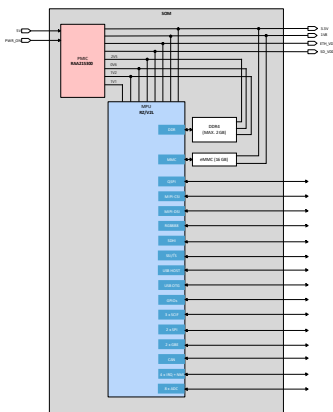
Solution Summary

The MXT LGA SoM integrates the [RZ/V2L](#) or [RZ/G2L](#) microprocessor units (MPUs) and is a perfect fit for products which are prone to vibrations and require a compact form factor. With RZ/V2L DRP-AI real-time AI inferencing and image processing, it supports essential camera functions such as color correction and noise reduction in vision applications. The RZ/G2L SoM is offering customers additional flexibility in selecting the processing platform that best matches their performance, power, and cost requirements. Additionally, the SoM provides all key power rails required by the system — including 3.3V, 1.8V, Ethernet power, and SD Card power — directly from the module. This integration eliminates the need for duplicating these power supplies on the carrier board, significantly reducing BOM complexity, component count, and overall design effort for the customer.

Features/Benefits

- Small form factor: compact 45x50mm customized solderable module
- Evaluation kit containing SOM + carrier board
- OS support: embedded Linux with yocto-based BSP enables customizable and maintainable software stacks for long-term deployment.
- Memory & storage: 2GB DDR4 (optional 256MB, 512MB or 1GB), 16GB eMMC (optional 4GB up to 128GB)
- Wide operating temperature range from -40°C to 125°C

Block Diagram/Graphics



Target Market and Applications

- Industrial equipment & automation
- Surveillance & security
- Consumer & home automation
- AIoT (AI + IoT) devices
- Transportation
- EV charging stations
- Retail analytics systems
- Smart energy / grid
- Edge communication devices
- Retail / kiosk solutions

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Get the Board

To obtain the RZ/V2L System-on-Module or a compatible carrier board, contact MXT to request samples, discuss customization options, or place an order. Boards can be tailored to specific project needs and ordered at scale.

Address	400083, Avram Iancu, No. 32A, Cluj-Napoca, Romania
Email	info@mxt.ro
Contact	+40 742 063 131

MXT offers direct support for customer-specific builds and consultation, ensuring flexibility for prototyping and scalable deployment.

About Us

MXT is an Independent Design house focused on providing full-stack solutions for embedded products. Based out of Romania, MXT's mission is for integrating multiple technologies – embedding anything- with a people-oriented focus on high performance delivery.

Always providing a tailored market approach, MXT assists you during the entire development cycle, from the concept phase design, up to production. Combining a strong technical background in electronics and information technology with hands-on experience in complex projects, we are able to handle your requirements and challenges, offering you the optimal solution for your project.

Services

1.

Software services

Embedded solutions & design
Linux customization
Real Time OS
Board support packages
Customized software applications
Basic software development (AUTOSAR 4.x)
Flash bootloaders
FPGA programming
HMI design and implementation

2.

Hardware services

SDM Design
ARM based embedded boards
Motor control
Schematic design
PCB layout design
High speed design
Low power design
Hardware laboratory

3.

PoC & prototyping

Schematic and layout design
PCB & PCBA
Customized software applications
R&D activities

4.

Technical trainings

On request, for embedded related area

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