

RZ Ecosystem Partner Solution

MXT RZ/G3E OSM-L SoM



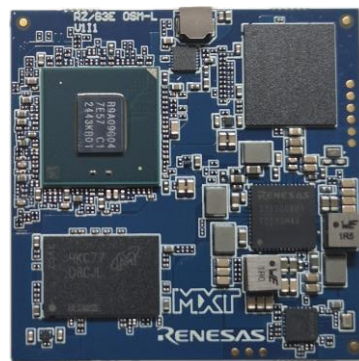
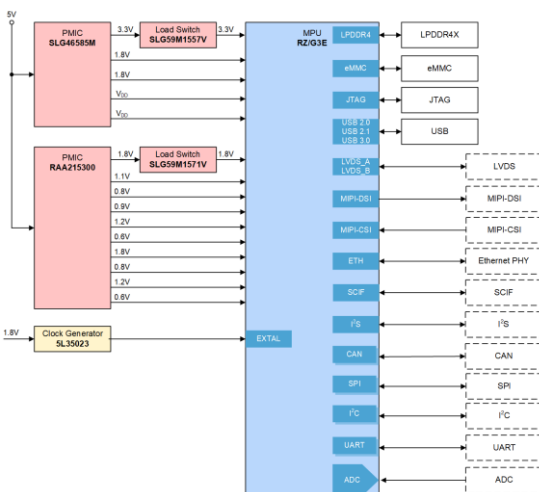
Solution Summary

The MXT RZ/G3E OSM-L SoM integrates the [RZ/G3E](#) for high-performance edge computing, power, timing, and memory solutions into a compact, standardized form factor to simplify mass production and reduced bill of materials (BOM) complexity. Standardized interfaces on the SoM support seamless integration of external peripherals, including displays, cameras, USB devices, sensors, audio modules, and more. To ease the SoM's evaluation, prototypes can be submitted soldered on an OSM-2-SMARC adapter, allowing simple operation on a standard-off-the-shelf SMARC carrier board.

Features/Benefits

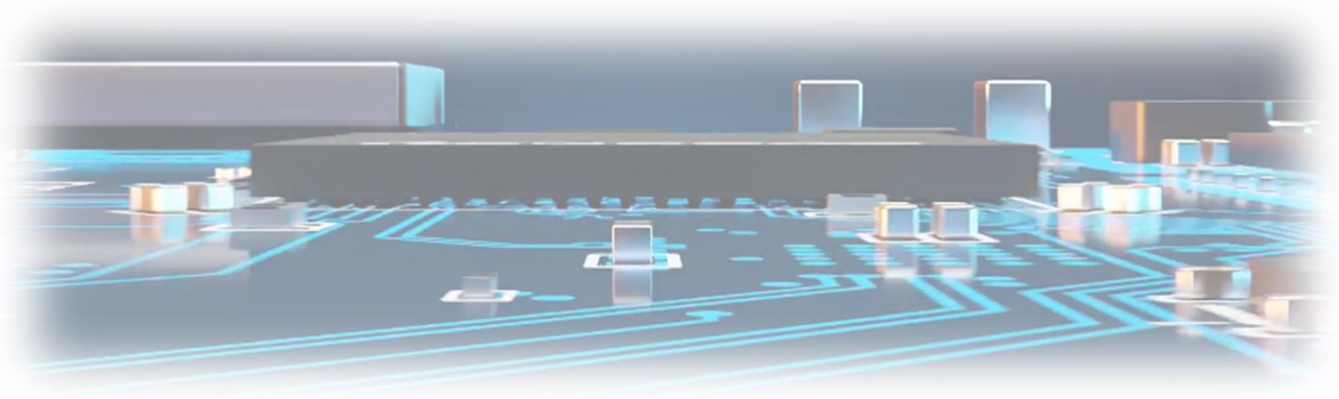
- Small Form Factor: compact 45x45mm OSM Size-L module
- Evaluation Kit containing OSM Size-L to SMARC adapter and SMARC carrier board
- OS Support: embedded Linux with Yocto-based BSP enables customizable and maintainable software stacks for long-term deployment.
- Memory & Storage: 8GB LPDDR4X (optional 1GB, 2GB or 4GB), 16GB eMMC (optional 4GB up to 64GB)
- Wide operating temperature range from -40°C to 125°C

Block Diagram/Graphics



Target Market and Applications

- Industrial HMI
- Industrial computer
- Industrial gateway
- Building control
- Home security hub
- Smart doorbell
- Smart thermostat
- Patient monitor
- Home automation



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

SOM 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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