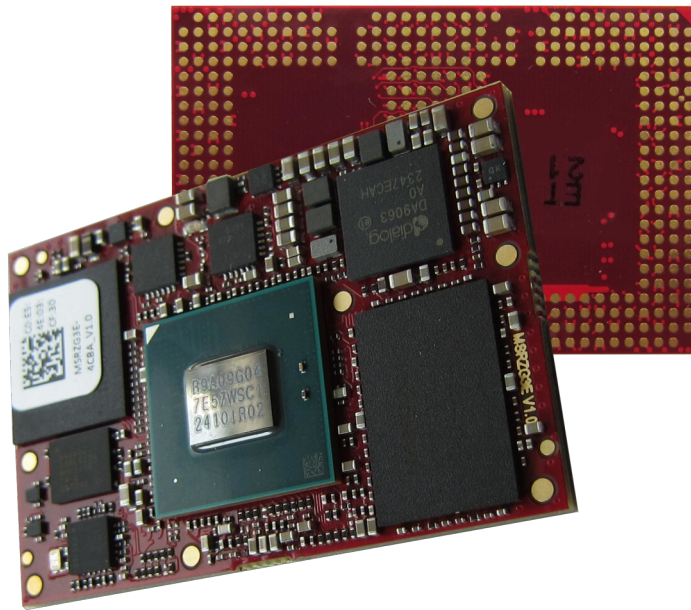


MSRZG3E System In Package

The MSRZG3E is the Open Standard Module (OSM) compliant System-In-Package based on Renesas RZ Family architecture offering high-performance quad core Cortex-A55, a Cortex-M33 core as well as an Ethos-U55 NPU. The MSRZG3E combines robust industrial interfaces with ambitious multimedia features in a single architecture.

The chosen OSM form factor 'size M' supports 476 contacts, on a module size of just 30x45 mm². It offers almost all of the CPU functionality on the contacts and is therefore suitable for most industrial applications.



MSRZG3E featureset:

- Dual/Quad Cortex-A55, up to 1.8GHz
- Cortex-M33, up to 200MHz
- Ethos-U55 NPU, 1GHz, optional
- 512MB – 8GB LPDDR4 RAM
- 4GB – 64GB eMMC NAND Flash
- RGB and MIPI-DSI
- MIPI-CSI camera interface, 1, 2 or 4 lanes
- Video Codec Unit, H.264/H.265 encoding / decoding
- Frame Data Processor
- Video Signal Processor
 - scaling, image rotation
 - Color space conversion, color keying
- PCIe, 1 port Gen3 x2
- Dual 10/100/1000MBit Ethernet
- USB2.0 Host/OTG
- USB3.2 Host
- 2x CANFD
- UART, I2C, SPI, ADC, DAC
- compliant to the SGET OSM standard
- sizeM, 30x45mm, 476 contacts
- -25°C..+70°C commercial temperature range
- -40°C..+85°C industrial temperature range



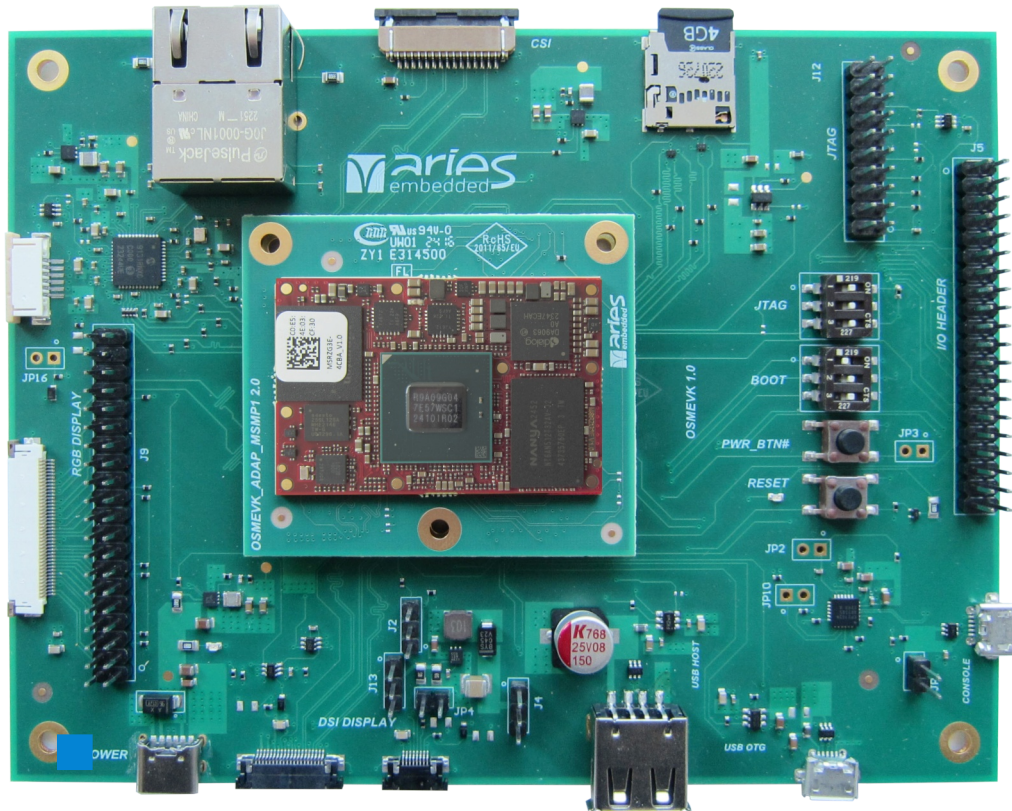
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MSRZG3EEVK Evaluationboard

The MSRZG3EEVK supports a quick start-up of CPU projects and can easily be used as a fast-prototype platform. It contains the Open Standard Module compliant System-In-Package based on Renesas' RZ/G3E Family architecture offering high-performance dual/quad CortexA55 cores in combination with a CortexM33 core. The MSRZG3E combines compact design and a wide range of services, bringing low power consumption, thermal efficiency and low-cost to embedded systems.



MSRZG3EEVK featureset:

- MSRZG3E System on Module
- Ethernet on RJ45 connector
- USB Host on USB A connector
- USB OTG interface on USB microAB connector
- display on FPC connector or pin header
- console interface on USB microAB connector
- UART on pin header
- CAN on pin header
- SPI on pin header
- I2C on pin header
- GPIO on pin header
- JTAG on pin header



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