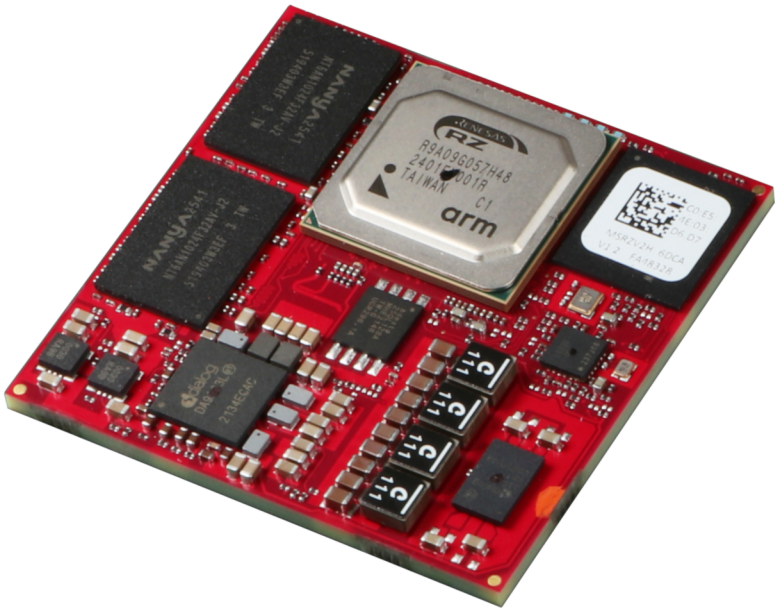
# MSRZV2H System In Package

The MSRZV2H is the Open Standard Module (OSM) compliant System-In-Package based on Renesas RZ Family architecture offering high-performance quad core Cortex-A55, a dual core Cortex-R8 cores, a CortexM33 core as well as a DRP AI-coprocessor. The MSRZV2H combines robust industrial interfaces with ambitous multimedia features in a single architecture and supports up to 4 cameras simultaneously. The chosen OSM form factor 'size L' supports 662 contacts, on a module size of just 45x45 mm².



## MSRZV2H featureset:

- Quad Cortex-A55, up to 1.8GHz
- Dual Cortex-R8, up to 800MHz
- Cortex-M33, up to 200MHz
- DRP AI-co-processor and DRP-AI accelerator
- 1GB – 16GB LPDDR4 RAM
- 8GB – 128GB eMMC NAND Flash
- MIPI-DSI
- four MIPI-CSI camera interface, 1, 2 or 4 lanes
- Video Codec Unit, H.264/H.265 encoding / decoding
- Mali-G3 GPU
- PCIe, 1 port Gen3 x2
- Dual 10/100/1000MBit Ethernet
- USB2.0 Host/OTG
- 2x USB3.2 Host
- 2x CANFD
- UART, I2C, SPI, ADC, DAC
- compliant to the SGET OSM standard
- sizeM, 45x45mm, 662 contacts
- 0°C..+70°C commercial temperature range
- -40°C..+85°C industrial temperature range

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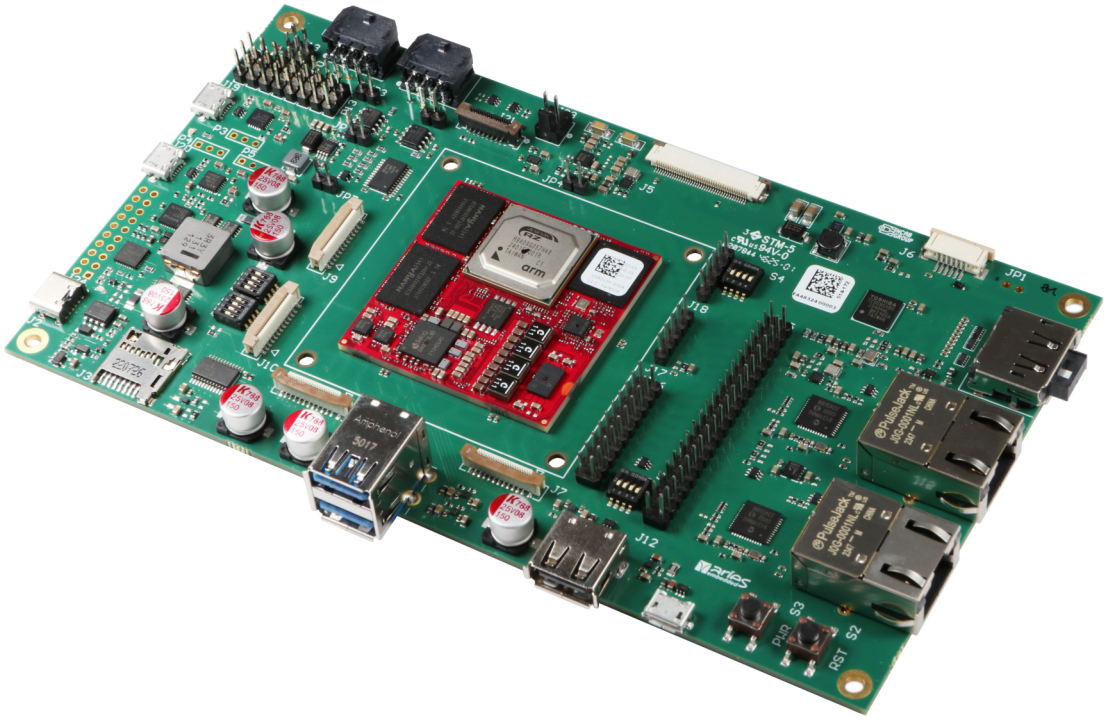
# V2HBerry Evaluationboard

The V2HBerry 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/V2HFamily architecture offering high-performance. The MSRZV2H combines compact design and a wide range of services, bringing low power consumption, thermal efficiency and low-cost to embedded systems.



## V2HBerry featureset:

- MSRZV2H System on Module
- MIPI-DSI display
  - as RGB on fpc-connector or
  - on display port connector
- 2x MIPI-CSI camera interfaces on fpc connectors
- 2x Ethernet on RJ45 connector
- PCIe on Raspberry Pi fpc-c
- 2x Ethernet on RJ45 connector
- PCIe on Raspberry Pi fpc-connector
- USB Host on USB A connector
- USB OTG interface on USB microAB connector
- 2x USB3.2 int
- 2x Ethernet on RJ45 connector
- PCIe on Raspberry Pi fpc-c
- 2x Ethernet on RJ45 connector
- PCIe on Raspberry Pi fpc-connector
- USB Host on USB A connector
- USB OTG interface on USB microAB connector
- 2x USB3.2 interfaces on USB-C connector
- 2x Ethernet on RJ45 connector
- console/UART interfaces on USB-C connector

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