

# RZ Ecosystem Partner Solution

## CORE GR-MANGO



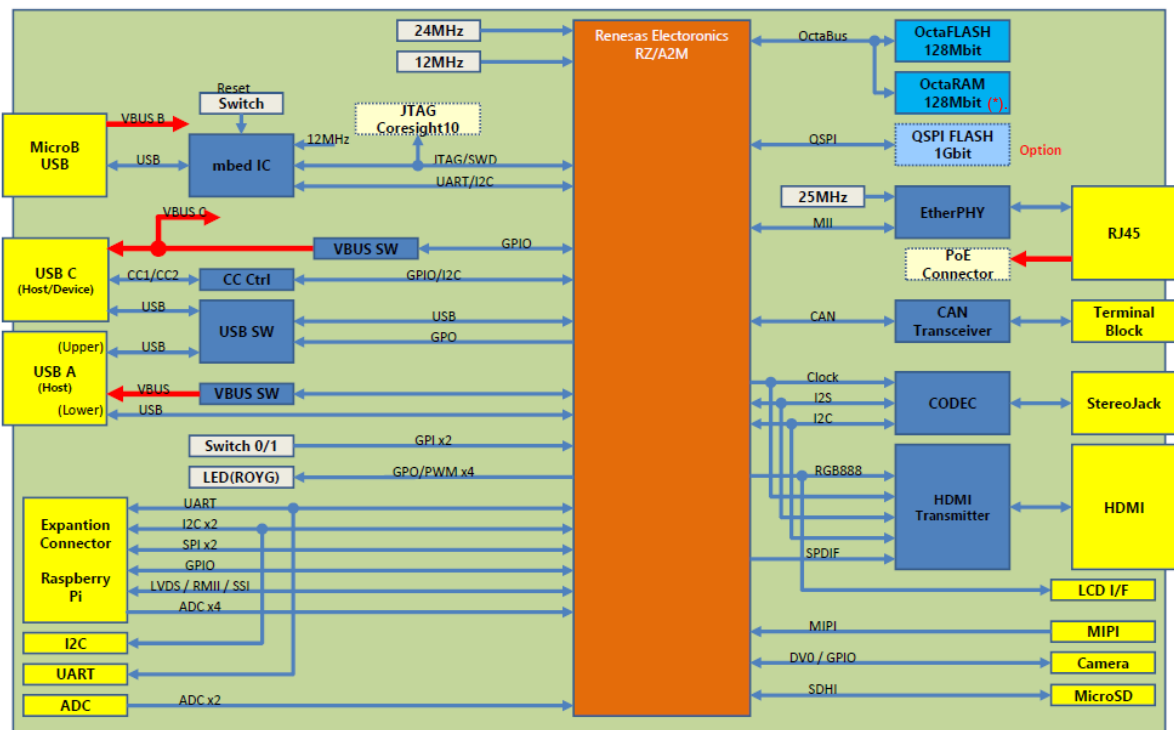
### Solution Summary

**GR-MANGO** is equipped with **RZ/A2M**, which delivers image processing performance 10 times faster than the CPU and strongly accelerates AI processing. It is also equipped with a wide variety of other interfaces such as HDMI, audio, Ethernet, USB, CAN, etc., allowing you to create an embedded AI system that suits your needs.

### Features/Benefits

- **Dynamic Reconfiguration Processor (DRP)** - Renesas' proprietary technology
- Equipped with Arm Cortex-A9 "RZ/A2M" • CPU 528MHz High Speed Operation • CAN
- Built-in 4MB RAM, External 16MB • MIPI-CSI Camera Interface • Micro SD
- Micro HDMI
- Ethernet
- Audio In/Out
- USB Host Function (Type-C)

### Diagrams/Graphics



(\*)Due to RZ/A2M specification restrictions, only 64Mbit can be used.

### Target Markets and Applications

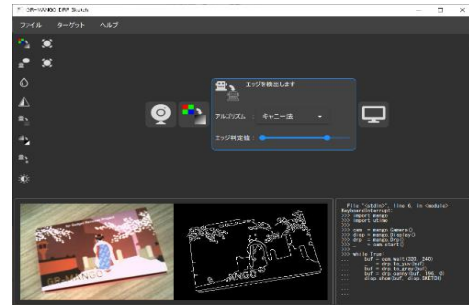
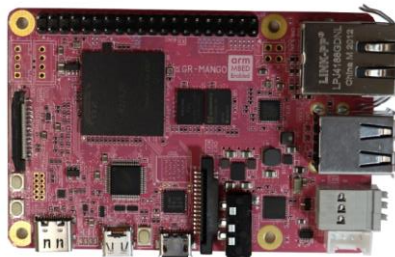
- Image processing related
- Embedded AI

<https://www.core.co.jp/service/iot/gr-mango>

## Image processing software **DRP Sketch**

We also provide an application that allows users to try out the **DRP** library without programming.

([https://www.core.co.jp/service/iot/gr-mango/dl/gr-mango\\_fileserver](https://www.core.co.jp/service/iot/gr-mango/dl/gr-mango_fileserver))



### GR-MANGO DRP Sketch ver.0.3.0 (Updated January 18, 2021)

It is a PC application that allows you to easily try image processing using **DRP** on **GR-MANGO**. You can change filters and parameters in real time just by operating the icons. It works on Windows 10 (64bit).

download →

## Food Recognition Demo

(<https://github.com/renesas-rz/rza2m-food-recognition-demo>)

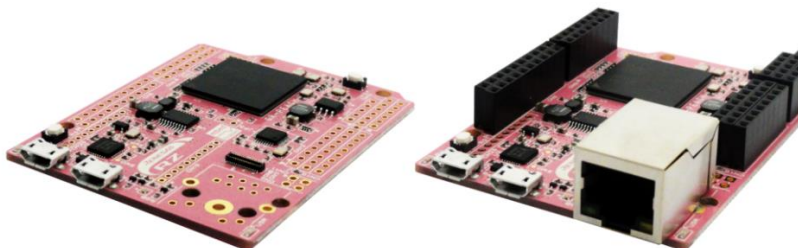
### What is rza2m-food-recognition-demo

Food recognition demonstration program performed by **DRP** enabled **RZ/A2M**

standard demonstration	original demonstration	You can change	on GR-MANGO board
edamame 94% 300yen	Beer 80% 500yen		
370msec <b>DRP</b>	370msec <b>DRP</b>		

We also have [GR-PEACH](#) / [GR-LYCHEE](#) with **RZ/A1**.

### GR-PEACH



### GR-LYCHEE

