

# RZ Ecosystem Partner Solution AP Memory Octal SPI PSRAM Solutions

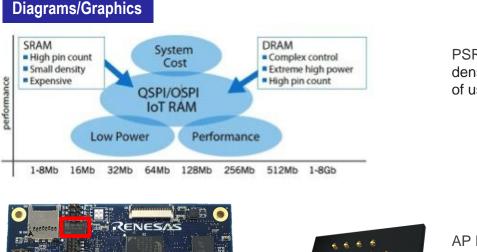


### **Solution Summary**

AP Memory Octal PSRAM product family, as an alternative solution to standard parallel interface PSRAM and legacy DRAM, supports high bandwidth with low pin-count, low power consumption and cost-effective external memory, suitable to <u>RZ family</u> which requires larger high bandwidth memory to fulfill high performance, and real-time industrial application including <u>embedded AI</u> and audio/video pre-processing.

#### Features/Benefits

- Octal SPI PSRAM, up to 512Mb, 1.8V
  - High Bandwidth: PSRAM up to 400MB/s at 200MHz by Octal SPI Memory Interface
  - · Lowest Pin Count: 11 signal pin only
  - Lowest Power (Halfsleep<sup>™</sup>): Standby current starting from 20uA typical at room temp.
  - Design Simplicity: Suitable for small size design, such as SMARC (82mmx50mm)



PSRAM combines the high density of DRAM with the ease of use of on-chip SRAM.





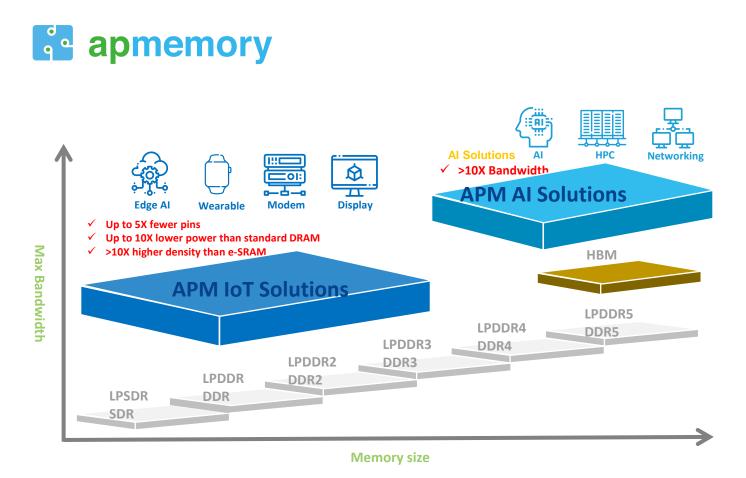
AP Memory Octal SPI PSRAM are mounted on multiple Renesas Evaluation Board Kits, such as <u>RZ/A2M</u>, <u>RZ/A3UL</u> etc.

- Target Markets and Applications
- Simple Camera
- Retail POS
- Simple HMI

- IoT Gateway/Controller
- Home Appliances
- Sound System

- Wearables
- Industrial Display
- Consumer Electronics

## https://www.apmemory.com/zh-hant/products/psram-iot-ram



## AP Memory, a Leading Provider of Low-Mid Size PSRAM/DRAM

AP Memory is a fabless DRAM and IP product company. As a world leader in Pseudo-SRAM, AP Memory delivers reliable solutions of low-pin-count, ultra-low-power IoT RAM and high-performance derivative products. AP Memory is also the world-leading company in AI memory solutions, particularly for 3D IC. The headquarters is based in Hsinchu, Taiwan, with R&D centers in the US, Mainland China, Taiwan, and sales offices worldwide. For more information, please visit www.apmemory.com and <u>https://www.apmemory.com/applications/internet-of-things/</u>

