# **ANALOG & CONNECTIVITY**



MAY 16, 2024 DAVIN LEE SVP AND GM OF ANALOG & CONNECTIVITY PRODUCT GROUP RENESAS ELECTRONICS CORPORATION



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### AT A GLANCE ANALOG & CONNECTIVITY

#### Our products / technologies



Full system solution of memory interface products for DDR5



Broadest and deepest silicon timing portfolio



2023 Revenue



Connectivity (BLE, Wi-Fi, NFC, DECT, Sub-GHz, PLC etc.)



Sensors and sensor signal conditioners





### **GROWTH DRIVERS ANALOG & CONNECTIVITY**



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# **MEMORY INTERFACE OVERVIEW**



### **RENESAS MEMORY LEADING DDR5 TRANSITION EXANDING CHIPSET CONTENT**



### NEW CLASS OF HIGH BANDWIDTH SOLUTIONS: MCR/MR DIMM OPTIMIZED SOLUTION FOR SYSTEM MEMORY IMPROVEMENT



#### Comparison<sup>\*1</sup> of High bandwidth technologies (Relative to RDIMM baseline)



\*1: All metrics are estimated per SoC from various sources

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# **CONNECTIVITY OVERVIEW**



# **CONNECTIVITY @ THE EDGE - SCALABLE STRATEGY**



### Scalable strategy



Ultra low power architecture



Localization & Identity connectivity



Software platform



# **CONNECTIVITY @ THE EDGE - COMPETITIVE ADVANTAGE**

#### Low Power @ the edge

Leveraging Renesas unique architecture delivering up to 50% less power than the nearest competitor in class



>2yrs on 2 AA batteries



10yrs on CR2032 cell



#### Performance where it matters

Functional & performance advantages for key customer needs



Enabling secure access with widest margin



Double the interference robustness of nearest competition in noisy environments

Scalable integration with MCU

#### Reduced cost of ownership

Integration of key components to reduce BOM



Reducing customer board size by 30%





Removal of complex matching circuitry

## Reality Al Winning Combos

Seamless integration into the Renesas EP ecosystem significantly reduces development time

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## **SOLUTION SELL**



\*1: Numbers based on the launch until the end of 2023, \*2: Renesas estimates



## **SUMMARY**



DDR5 / MCR ramp and content increase driving memory interface growth

Connectivity products ideally suited to address market demands as connectivity at the edge increases

Solution sell leveraging MCU market share & broad product portfolio

Ease of use software platform enabling faster market adoption







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