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

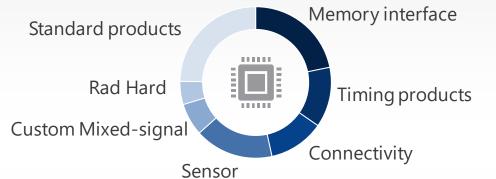
Our products / technologies



Full system solution of memory interface products for DDR5



Broadest and deepest silicon timing portfolio



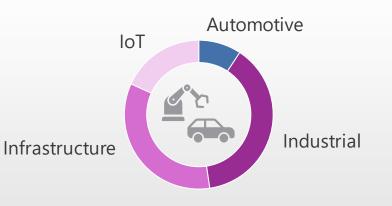
2023 Revenue



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

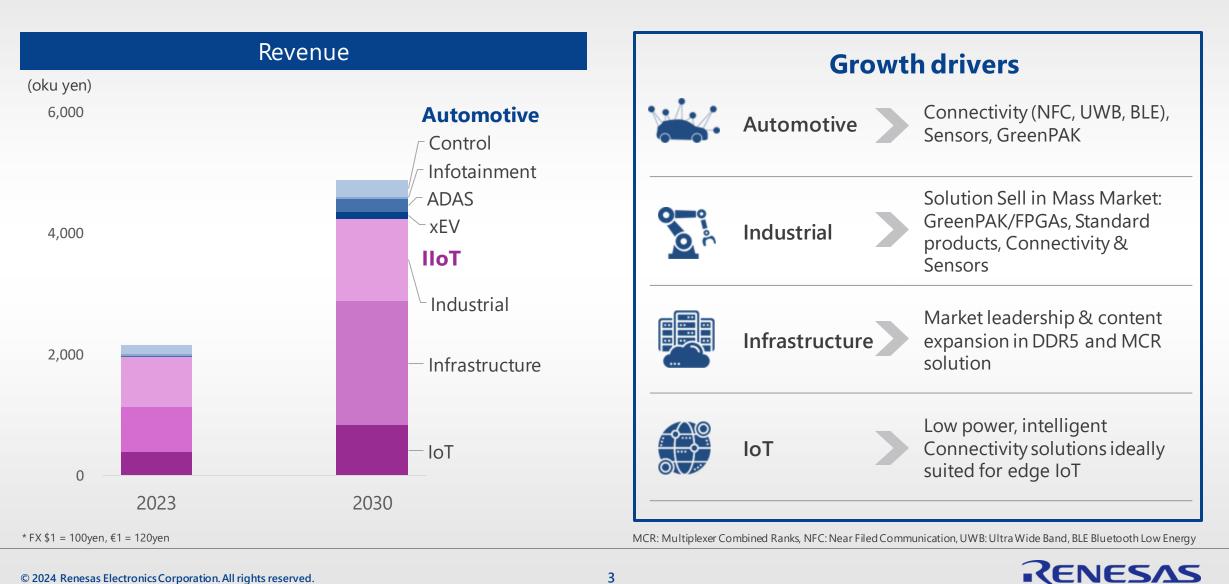


Sensors and sensor signal conditioners



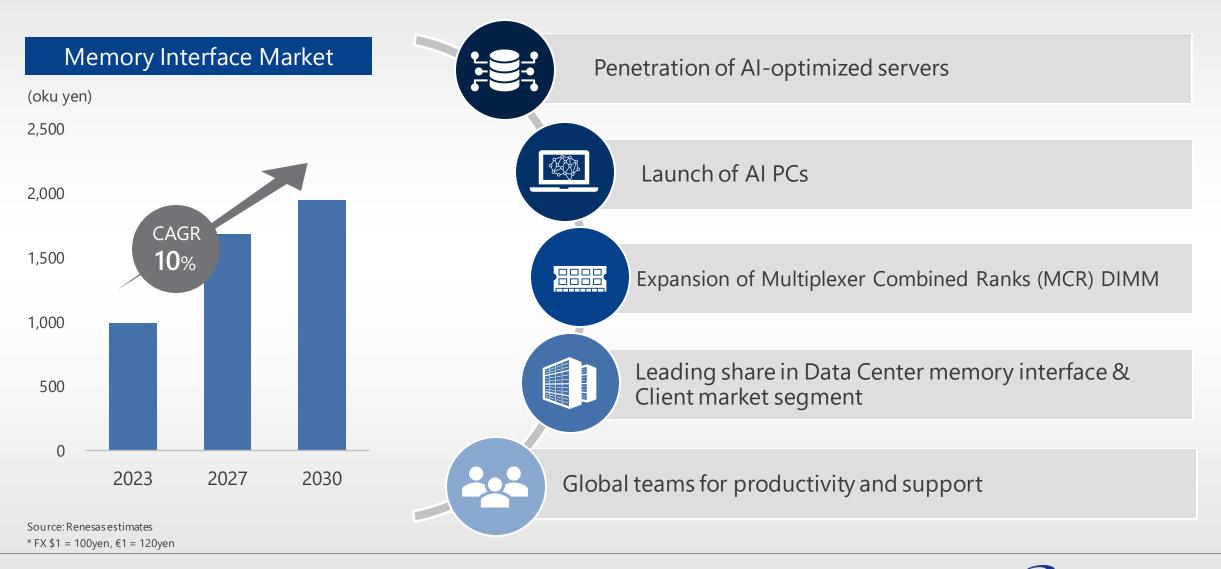


GROWTH DRIVERS ANALOG & CONNECTIVITY

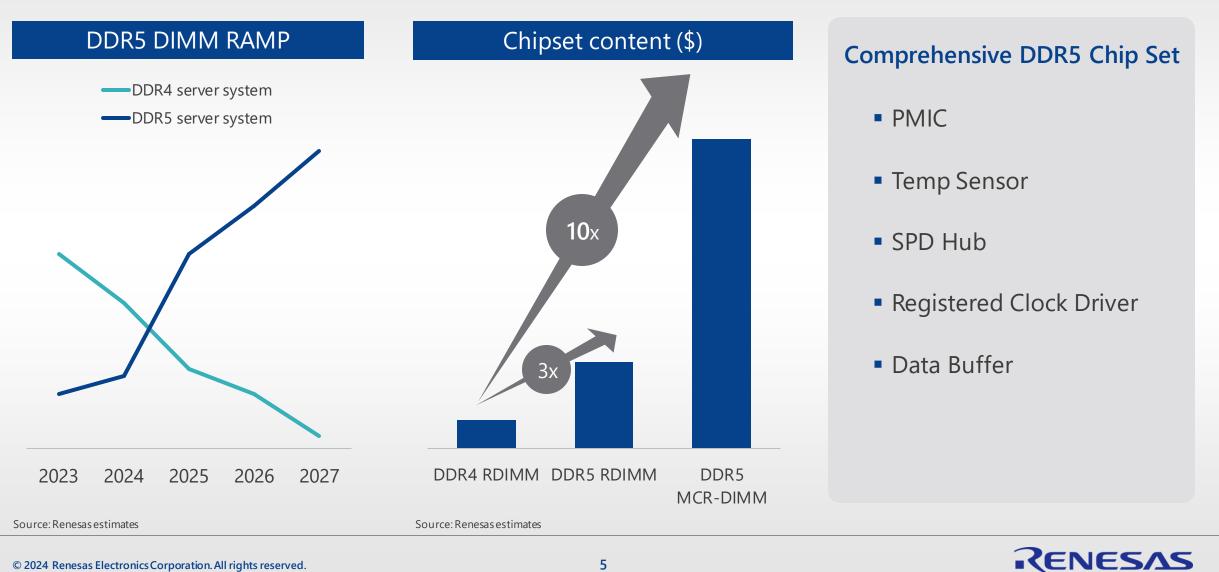


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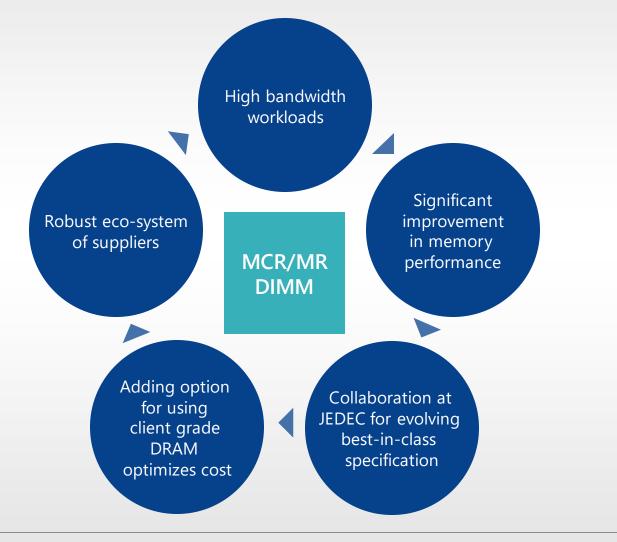
MEMORY INTERFACE OVERVIEW



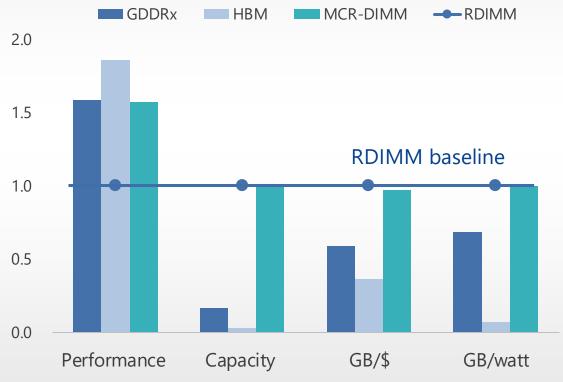
RENESAS MEMORY LEADING DDR5 TRANSITION EXANDING CHIPSET CONTENT



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



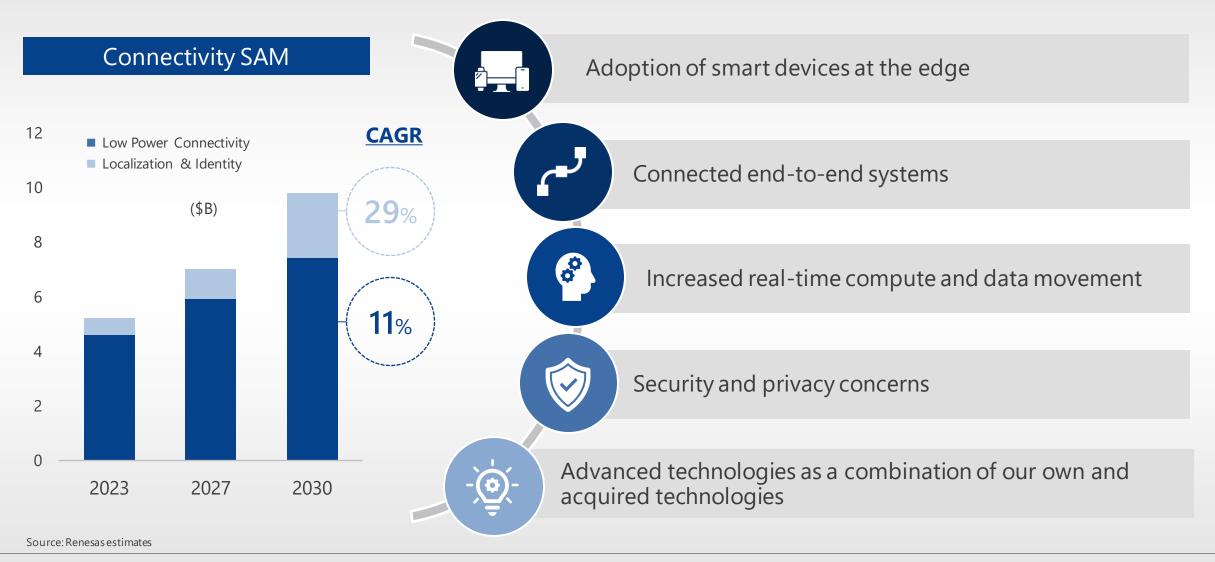
Comparison^{*1} of High bandwidth technologies (Relative to RDIMM baseline)



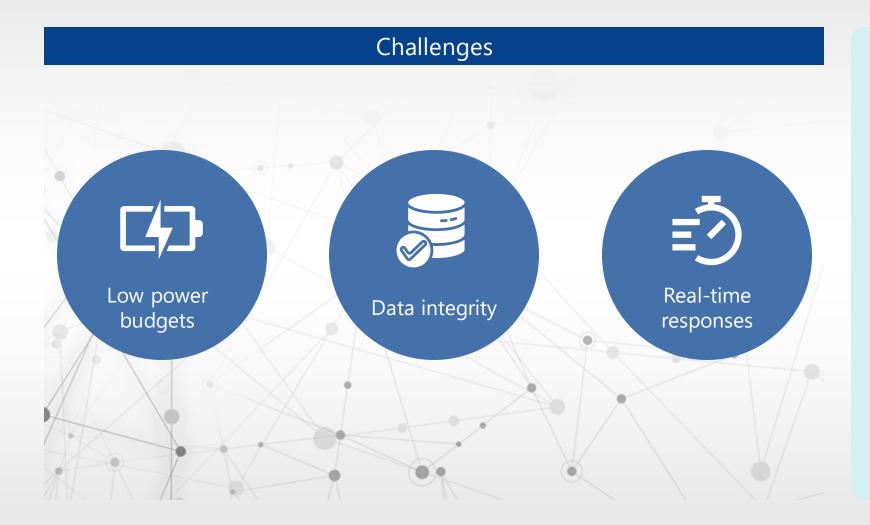
*1: All metrics are estimated per SoC from various sources

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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

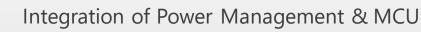
Scalable integration with MCU

Reduced cost of ownership

Integration of key components to reduce BOM



Reducing customer board size by 30%





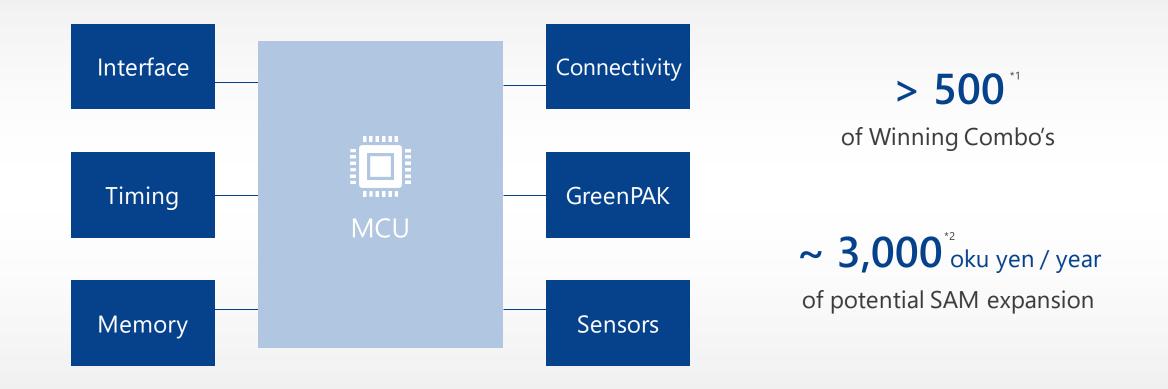
Removal of complex matching circuitry

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







(FORWARD-LOOKING STATEMENTS)

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