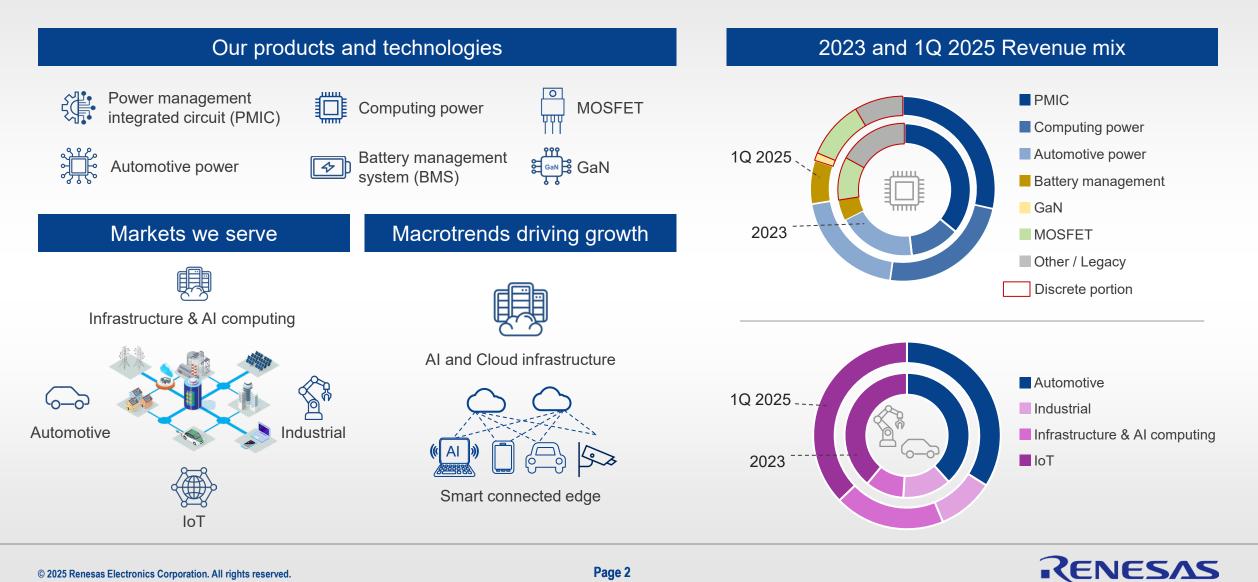
# POWER





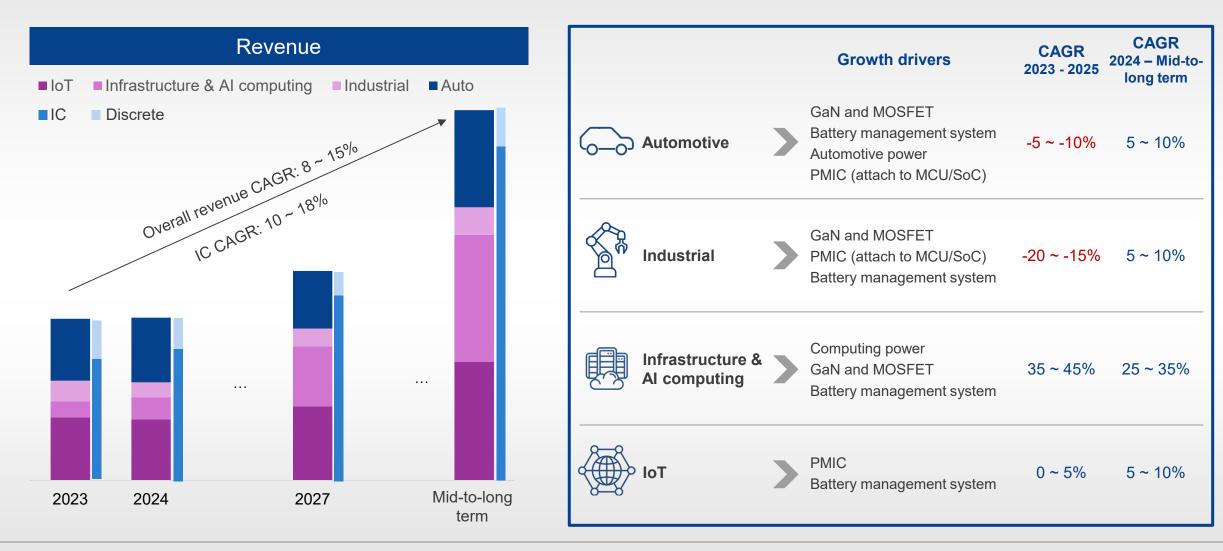
## **AT A GLANCE** POWER



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Page 2

## **GROWTH DRIVERS** POWER



### RENESAS

# **POWER STRATEGY AND SEGMENT FOCUS**

### Focus areas



Infrastructure / AI & Computing





Other server & cloud





Industrial and Energy

## Strategy

### **Targeted approach**

- Target the fastest growing segment of our SAM with tailored solutions with more application specific products
- Center of application expertise dedicated engineering and segment specific teams
- Deep engagement with strategic and lead customers. Develop scalable and repeatable richer solutions for end-equipment

Accelerated growth

### **Digital attach approach**

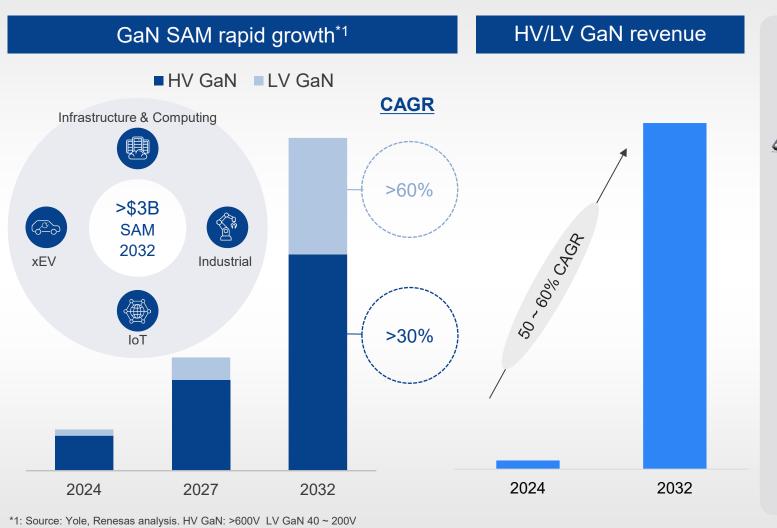
- Full BOM focus with more products per systems
- Solution and attach play: leverage Renesas digital footprint (MCU, MPU, SoC)
- Leveraging Renesas 365 for platform attach & system integration



Embedded system solution



# GAN MARKET EXPANSION THROUGH FULL ECOSYSTEM SOLUTIONS



### **Growth drivers**

#### Strong GaN foundation and expanding

- Leading 650V d-mode, high power technology
- Vertically integrated own Epi and process
- Expanding with 40-200V LV GaN e-mode
- Optimized packaging, superior thermals

#### System solution for best customer experience

- GaN-optimized IC controllers & drivers
- New topologies GaN BiDirectional switch
- Solutions with SiPs, power stages and reference design across all power ranges

#### Scaling to 8-inch manufacturing

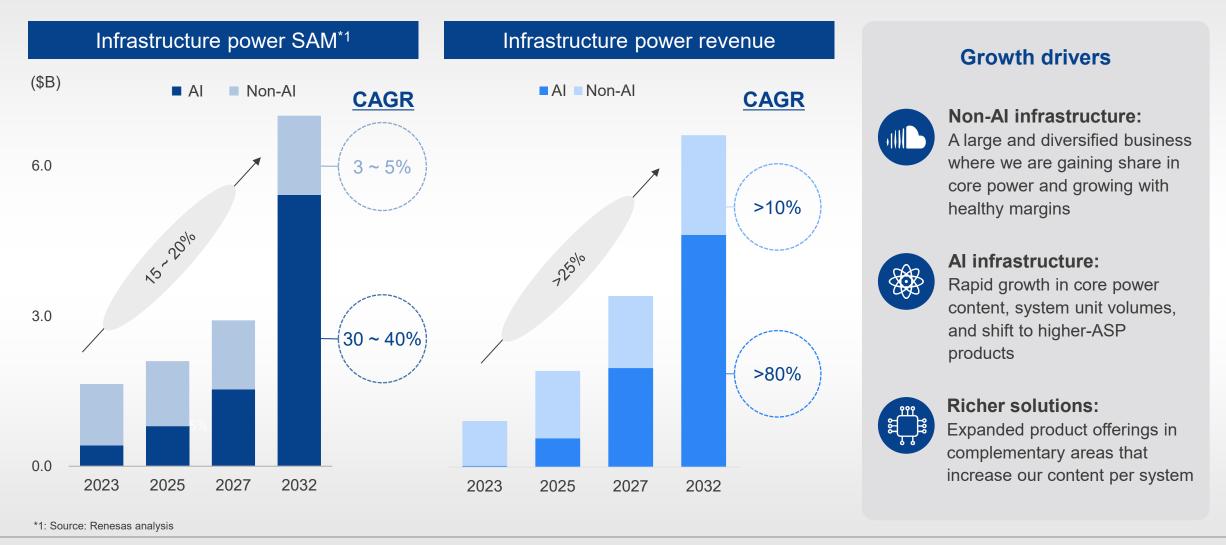
6"

8"

- High quality 6-inch manufacturing today
- 8-inch ramp licensing and supply agreement with US partner (2027)
- LV GaN with external foundry and internal IP

### RENESAS

## AI DRIVING RAPID GROWTH IN A DIVERSIFIED INFRASTRUCTURE POWER BUSINESS

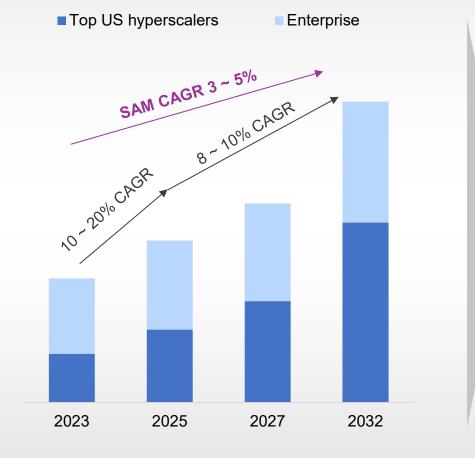


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### RENESAS

# **OUTPACING INDUSTRY GROWTH WITHIN NON-AI INFRASTRUCTURE**

### Non-AI infrastructure revenue<sup>\*1</sup>





# Robust growth in a large, diverse customer base in non-Al infrastructure due to:

- Core Technology: digital controllers, Power Stages, MOSFETs, ICs
- Proprietary software and tools that accelerate customer design cycles
- Supplier consolidation
- Expanding product portfolio



### Gaining share with all major Hyperscalers

- ~20% YoY revenue growth (2023~2025)
- Designed into all next-gen systems at top Hyperscalers
- Winning in x64, Arm, and networking platforms



### Succeeding in enterprise, networking and Telecom clients

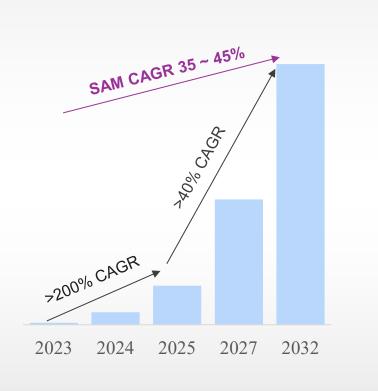
- ~10% YoY revenue growth (2023~2025)
- Ramping in next-gen systems at all top server OEMs, capturing major market share and expanding in networking and telecom

\*1: Source: TrendForce, Renesas analysis Note: The Non-Al infrastructure market includes servers, data networking, and telecom equipment that do not adopt modules.



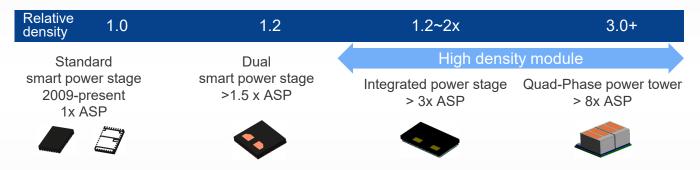
## CAPITALIZING ON AI MOMENTUM WITH MODULE AND SYSTEM POWER TOTAL SOLUTIONS

### AI infrastructure revenue\*1



### Investing and ramping Al-tailored products for GPU, TPU, and custom Al SoCs

- Core power remains solid backbone powering AI revenue growth: Digital controllers, Power Stages, MOSFETs, ICs
- Building on existing relationships with leading GPU provider and Hyperscalers
- Adding high density modules and vertical power solutions
- Winning and co-developing with key AI cloud players and Hyperscalers



### >

#### Driving rapid market adoption through an innovative 48V solution

 The first and the only proven onboard, cost-effective 48V solution, winning at majority of Hyperscalers and 3x 2023 to 2025

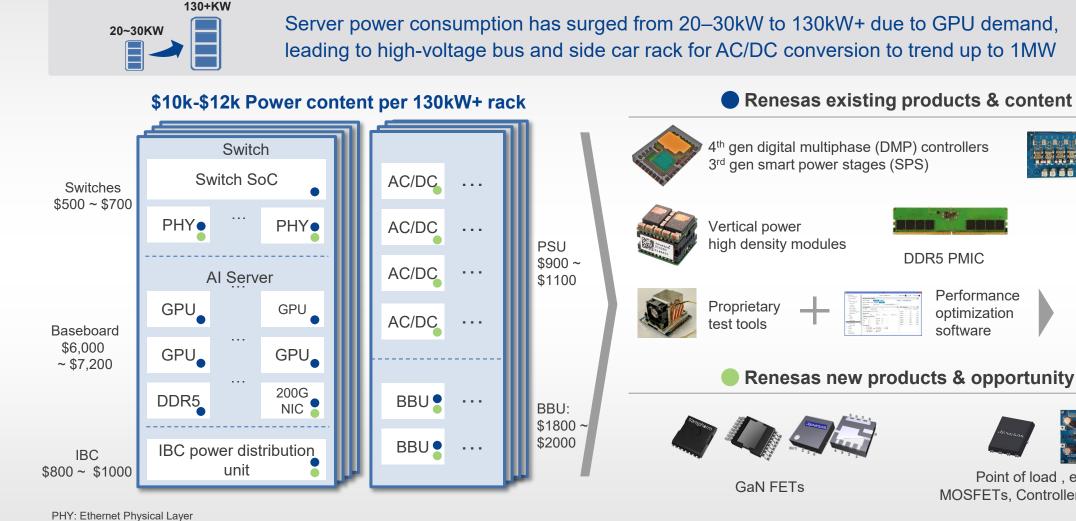
### Expanding product portfolio to provide one-stop system solution

- Total solutions in development covering Point of Load and e-Fuse
- Leveraging GaN / Ecosystem and BMS for complete system coverage



\*1: Source: TrendForce, Renesas estimate

# **POWER PORTFOLIO ADDRESSING GROWING OPPORTUNITY IN AI**





Point of load . e-Fuse **MOSFETs**, Controllers & Drivers

Performance



48V HSC IBC

16s BMS solution

Digital controller +

SPS as software-

enabled system

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## POWERING RENESAS AUTOMOTIVE EMBEDDED SYSTEMS WITH AN OPTIMIZED & SCALABLE AUTOMOTIVE PMIC PORTFOLIO

Svstem

& Safetv

### Renesas embedded systems advantages

- Leverage large and expanding SoC/MCU footprint. Co-development for seamless system integration
- Functional safety included at start simplifies customer design process
- Established reference designs and proven reliability reduces risk and time-to-market

### Proven market traction

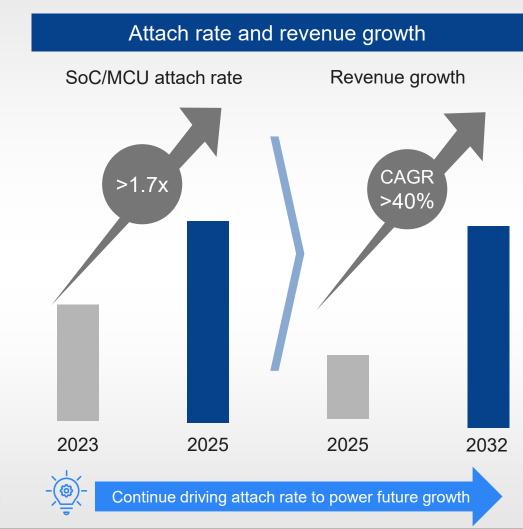
- First winning combination released Dec 2024, shipping 1Mu+ in 2025
- 500+ projects with 8+ OEMs & 100+ Tier-1s
- Numerous applications: ADAS central compute, Cockpit, BMS, Zone controller, Domain controller, Inverter, xEV X-in-1 (Inverter/BMS/OBC/DCDC)



lesign

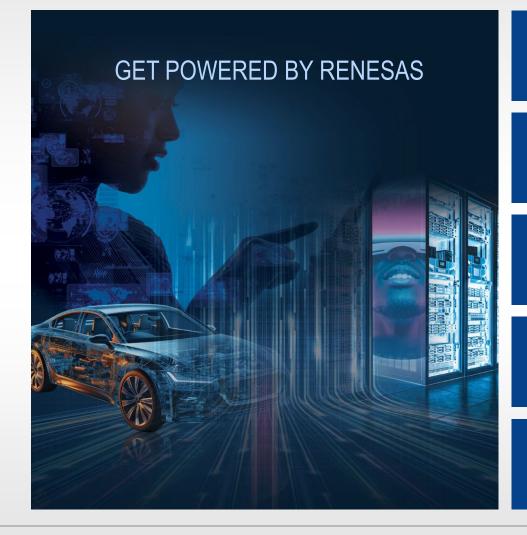
SoC/MCU

#### 1 MCU (RH850) + 1 PMIC (RAA271084)



### RENESAS

## **SUMMARY**



Comprehensive power portfolio and strong IP serves as a solid foundation for scalable and rapid growth

Targeted high-growth verticals and digital attach strategy to drive diversification and sustainable, broad-based growth

Accelerated growth fueled by the momentum in AI - infrastructure

GaN driving high voltage, high power business. Capitalize on Infrastructure & Automotive content expansion

Hyper-focus on solution selling into Renesas existing footprint of digital, analog, connectivity and power products





