AUTOMOTIVE STRATEGY

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BIG IDEAS FOR EVERY SPACE RENESAS

FINANCIALS



*1: FX 1USD=100yen, 1EUR=120yen. Continuing business only

*2: After reclassification (part of SG&A reclassified to CoGs and R&D)



NEAR TERM PROGRESS – DESIGN-IN



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NEAR TERM PROGRESS – WINNING COMBO



Design in record in 1H 2021

ADAS

Front camera(R-Car & PMIC) for premium Germany OEM & KoreanTier1



xEV

 Battery Management System(MCU RH850 & BMIC) for Chinese Tier1





DIALOG SYNERGY - EXPANDING PRODUCT PORTFOLIO



RENESAS

DIALOG SYNERGY - WINNING COMBOS



DIALOG SYNERGY - X-SALE OPPORTUNITIES / 2 EXAMPLES

PMIC for Renesas R-Car SoC

- Scalability and flexibility advantages while distributing heat dissipation in elevated temperature environments.
- Proven combination with R-Car starter kits. The starter kits are available for the user.
- AEC-Q100 qualified devices



Dialog GreenPAK(CMIC) solutions

- A wide variety of mixed-signal functions can be designed within a very small, low power single integrated circuit.
- Renesas & Dialog engineers propose how GreenPAK can reduce the BOM in the board design.
- AEC-Q100 qualified devices



DIALOG SYNERGY - A&P MODERNIZED

Existing Renesas methodology



- Designed individually
- Depended on craftsmanship

Introducing Dialog methodology



- Standardized design methodology
- Standard and common IP
- State of art EDA



NEW BUSINESS GROWTH



DESIGN IN GROWTH – NEW BUSINESS^{*1} CREATION



*1: Business for emerging customer/region

DESIGN IN GROWTH – DEEPER & BROADER



DESIGN IN GROWTH – QUALITY CHANGE



E/E ARCHITECTURE STRATEGY



RENESAS

XEV STRATEGY

Trend update

Market trend

Battery EV shift accelerating

• 10~20% CO₂ reduction by 48V is no longer sufficient. Shifting to higher voltage xEV.

2 Emerging OEMs and new entrant

• No exit barrier from ICE, Speedy & low-cost culture. New entrant from other industries.

Technology trend

3 SiC and GaN adoption accelerating

Technology is now ready to use

4 Wireless BMS demand growing

• OEMs must seriously consider recycling ecosystem of huge quantity of battery.

xEV strategy update



BIG IDEAS FOR EVERY SPACE RENESAS

XEV STRATEGY – BUSINESS PROGRESS



Design in record in 1H 2021

Inverter

- e-Axle inverter IGBT for EuropeanTier1
- Inverter MCU(28nm) for Japanese Tier1

Battery management

- Battery management BMS & MCU for Chinese Tier1
- Battery management MCU for Chinese OEM





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