



UBS Flagship German Auto Trip

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The Automotive Ethernet portfolio strengthens our market leading MCU position and increases offering for zonal architectures



Infineon's unique portfolio of MCU and Ethernet

Automotive MCUs



Automotive Ethernet

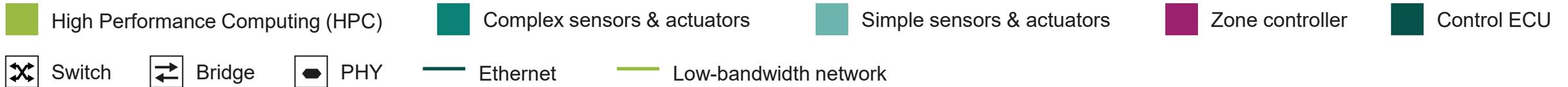
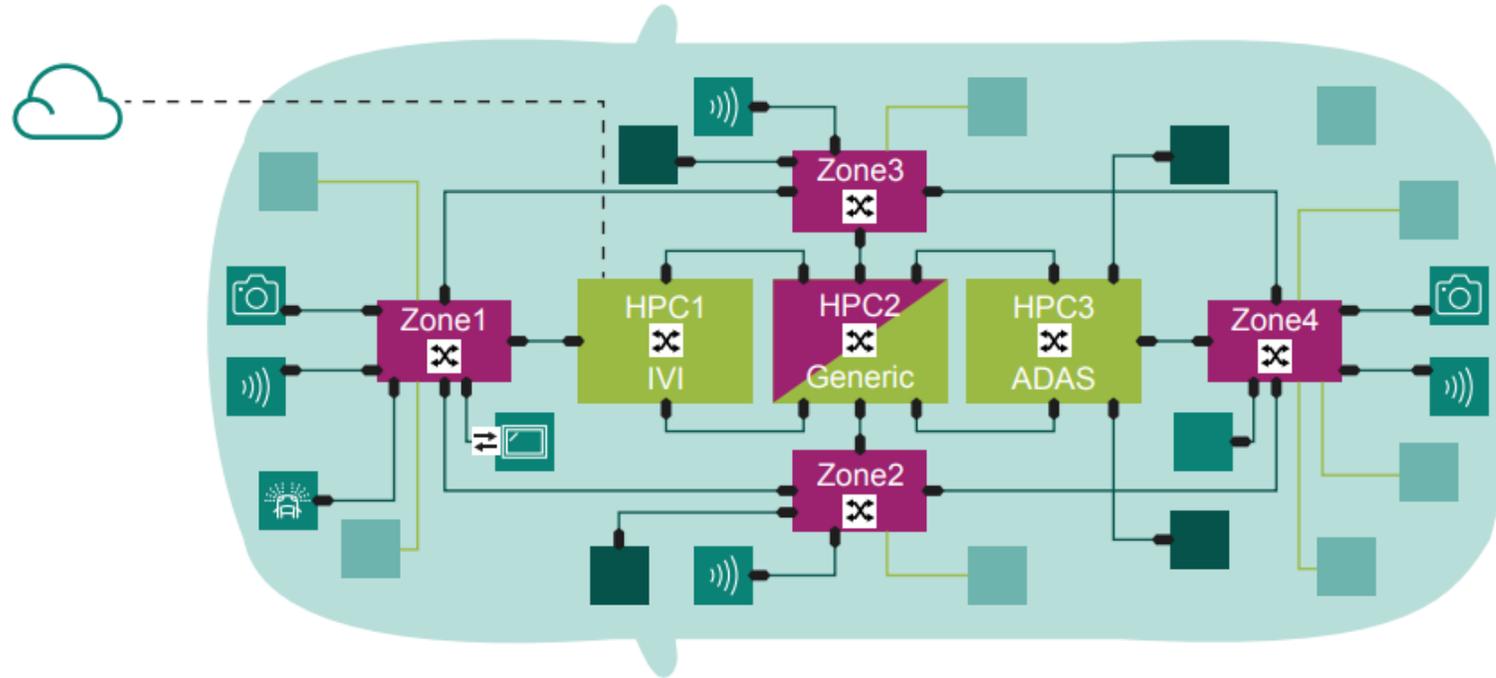


Synergy between MCU and Ethernet

- Strengthen Infineon's market leading MCU position and increase offerings for zonal architectures in the context of software-defined vehicles
- Expand the scope of Infineon's automotive portfolio with high-performing networking capabilities
- Allow highly integrated chip solutions from one hand, with unique product portfolio of MCU and Ethernet in-house
- Leverage Infineon's customer base for Ethernet solutions
- Current and upcoming automotive Ethernet products are based on Arm® cores. Infineon recognizes the strategic benefits of Arm® technology for Ethernet products.
- In addition to its Ethernet products, Infineon continues to utilize Arm® cores, including the latest M33, in its TRAVEO™, PSOC™ and MOTIX™ product families for the automotive sector.

Ethernet capabilities allow larger scope in SDVs, higher BoM, faster T2M for customers – strongly supporting our P2S play

Components of hierarchical E/E architecture

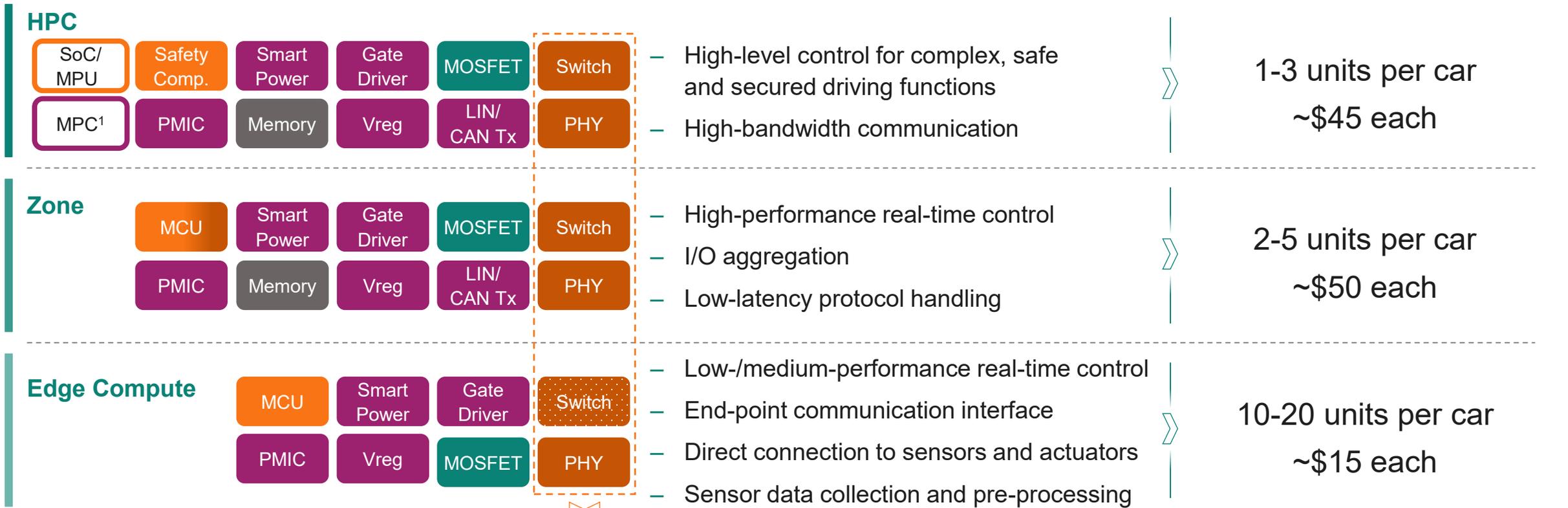


Infineon's extended portfolio contributes essentially to SDV as the second growth pillar alongside e-mobility



Infineon components for hierarchal computing E/E architecture

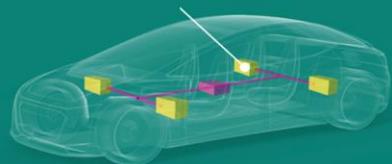
Infineon BoM potent.: ~\$500



Total BoM for Infineon increases by almost \$100 due to Ethernet

¹ Digital multi-phase controller for SoC/MPU Control Analog Memory Power Ethernet Component if needed Not part of Infineon portfolio

The MCU market will continue to grow – four big myths explained



Myth #1

“MCUs will be eaten up by MPUs as the zonal processors”

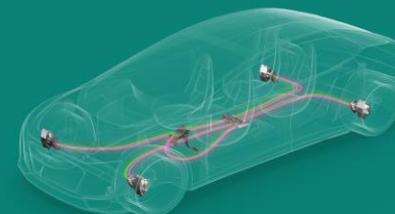
- Zone is a geographical term and does not indicate computing performance
- MCUs perform real-time data processing to decrease in-vehicle data traffic
- Some ECUs are relabeled as smart sensors and smart actuators



Myth #2

“Infineon’s AURIX™ family cannot compete with MPUs in terms of performance”

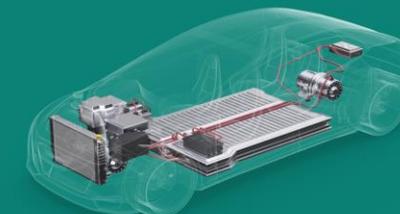
- The AURIX™ family (with built-in PPU) offers real-time data processing & Edge AI capabilities being superior to MPUs
- The AURIX™ family is the right fit for zones and supports real-time OS, e.g. AUTOSAR, FreeRTOS, Zephyr



Myth #3

“MCUs in real-time applications will be absorbed by the zonal MPU”

- Many applications, e.g. steering, braking, x-by-wire, and motor & engine management require real-time decentralized control algorithms closely to physical actuators, e.g. motors
- Low latencies and dependable reaction times offered by MCUs matter



Myth #4

“MCU demand is drivetrain agnostic”

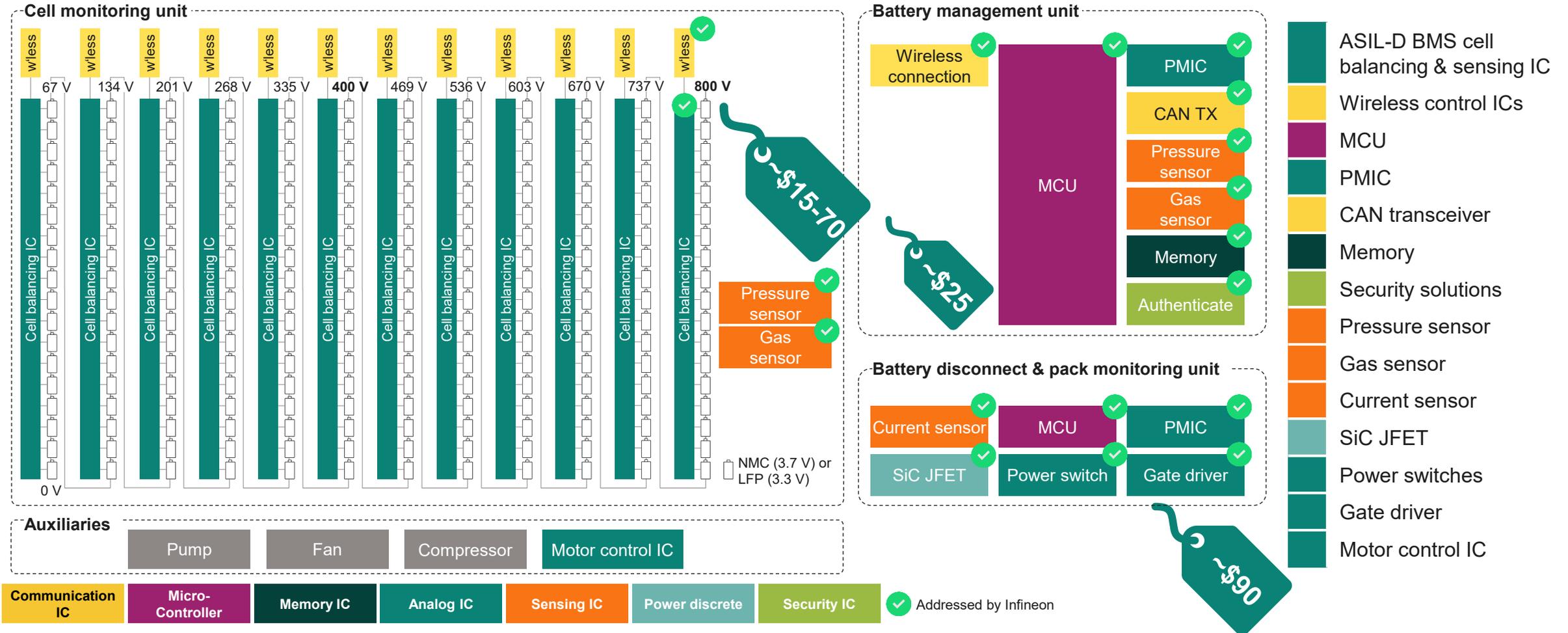
- An ICE drivetrain requires 2 MCUs (engine management, transmission)
- Hybrid & BEV drivetrains require up to 6 MCUs (incl. motor management, OBC, DC-DC converter, BMS, thermal management)

We expect the automotive MCU market continue to grow into next decade

Infineon offers a full portfolio for BMS – from cell and pack monitoring ICs to power discrete and processors



Infineon portfolio for battery management system (BMS)



The transition to the wireless 800 V LPF-based BMS will lead to a ~2.5x increase in BoM in cell monitoring unit for Infineon



Estimated BoM¹ could more than double depending on configuration

	NMC				LPF			
	400 V		800 V		400 V		800 V	
	Wired	Wireless	Wired	Wireless	Wired	Wireless	Wired	Wireless
 TLE9012	✓	✓	✓	✓	✓	✓	✓	✓
 TLE9018	✓ ~\$40	✓	✓	✓	✓	✓	✓	✓ ~\$95

¹ BoM does not include battery disconnect & pack monitoring unit

✓ Addressed by Infineon

BMS trends

- Trend #1: from 400 V to 800 V
- Trend #2: from NMC to LPF
- Trend #3: from wired to wireless
- LPF requires a more precise voltage sensitivity due to the more flattish charging characteristic

