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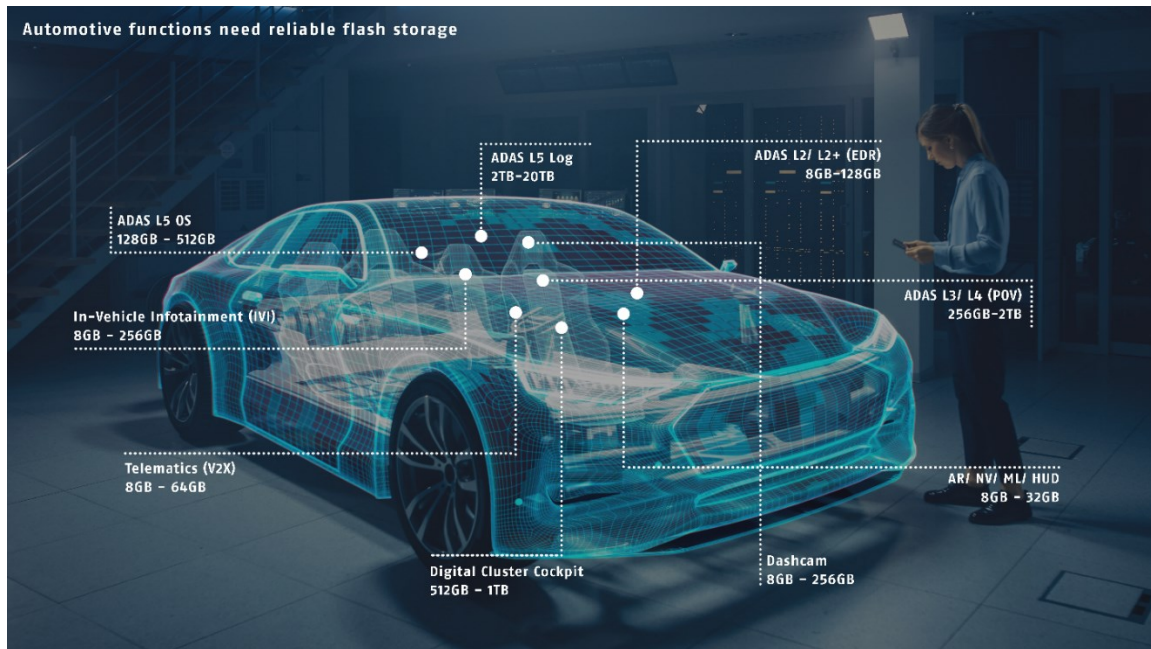
Hyperstone and partners join forces to research and solve storage challenges for autonomous driving

Constance, Germany, April 19th, 2023 – Within the MEMTONOMY-2 project, consortium partners, Hyperstone, Mercedes Benz, Continental, Micron, and LUBIS as well as research partners Fraunhofer IESE, TU Kaiserslautern and the Konstanz HTWG have set themselves the goal of developing new storage systems as well as safety and reliability concepts for autonomous driving. The project, funded by the BMBF »MANNHEIM« as part of the »Zukunftsfonds Automobile Industry« aims to research high-performance computing platforms, innovative vehicle architectures and future orientated software development processes.

In automotive, to curb cost and ensure energy efficiency, control devices implemented, have increasingly used components that were originally designed for consumer applications. This is particularly the case with memories such as DRAM and NAND flash, which play an integral role in enabling advanced features and handling the increasing amount of data generated and processed within vehicles. However, DRAM and NAND flash face challenges in terms performance, energy efficiency and functional safety since the majority are not qualified for safety-critical applications.

Current demands on computing power, flexibility and efficiency call for new approaches in microelectronics as well as in computing and software architecture. The overarching focus of the MEMTONOMY project is to identify new concepts to increasing reliability within demanding automotive storage. The projects aim to increase storage bandwidth while reducing latency and energy consumption should be made possible by a new flash controller architecture and an optimization of the memory data and access. Hyperstone has joined the project to share insights and experience in developing reliable storage applications and their software architecture will be critical in ensuring all systems meet the ISO 26262 safety standard necessary for applications in vehicles.

Learn more here: <https://www.elektronikforschung.de/projekte/mannheim-memtonomy>



About Hyperstone

Hyperstone is a fabless semiconductor company based in Constance, Germany with a strong focus on world class flash memory controllers for industrial embedded markets. Its products set the standard for high-reliability flash management providing confidence for NAND flash performance in mission critical situations. Hyperstone's products include microcontrollers for various host interfaces and performance points, e.g., SATA, USB, CF/PATA, SD/microSD and eMMC. Together with the hyMap® flash translation layer (FTL), the hyReliability™ feature set, reference designs, health monitoring, maintenance, and production tools Hyperstone offers a turnkey solution for storage media integrators. Hyperstone has been part of Swissbit Holding AG since 2020.

To learn more about Hyperstone, please visit www.hyperstone.com

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