

# Microchip Technology partners with Hyundai Motor Group for advanced in-vehicle network solutions

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**The collaboration aims to utilize 10BASE-T1S Ethernet technology to develop scalable vehicle architectures focusing on EVs, autonomous driving and smart mobility**

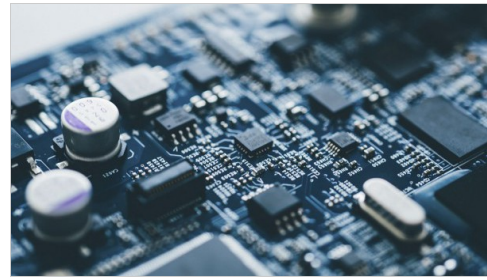
Microchip Technology has announced a collaboration with Hyundai Motor Group to explore the use of advanced in-vehicle network solutions based on the 10BASE-T1S Single Pair Ethernet (SPE) technology. This partnership aims to develop more efficient and scalable

vehicle architectures to meet the evolving demands of future mobility. The need for high-performance in-vehicle networks is driven by the rapid advancement of advanced driver assistance systems and connected vehicle features. SPE serves as a foundational technology in modern automotive architectures by enabling seamless connectivity, simplifying wiring, reducing system costs and streamlining network integration.

In this collaboration, Hyundai Motor Group is working with Microchip to integrate Microchip's 10BASE-T1S solutions into future vehicle platforms, particularly focusing on areas such as electric vehicles, autonomous driving and smart mobility. This initiative includes access to Microchip's technical support and early product samples to accelerate market readiness and optimize system performance.

Hyundai Motor Group highlighted the benefit of partnering with Microchip to leverage its Ethernet expertise, which will support the adoption of 10BASE-T1S technology and enable the development of next-generation intelligent, connected vehicles. The 10BASE-T1S technology supports multi-drop Ethernet communication over a single twisted pair, effectively extending in-vehicle networking to the edge by connecting devices, actuators and sensors more efficiently and cost-effectively.

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*Source: Getty/ Wiyada Arunwaikit*

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