

## Secure high-speed networking

Cypress enables secure, high-speed networking for automotive body electronics with its Traveo MCUs. The most recent additions support CAN FD, Eshe, and a partial wake-up mode for a lower power consumption.



*The Traveo family builds upon the FR81S and FCR4 families (Photo: Cypress)*

Cypress Semiconductor has announced it is sampling additional devices in its single-power-supply Traveo automotive micro-controller (MCU) family. The additions provide secure, high-speed networking for body electronics applications. The S6J342xxx series supports the CAN FD standard for high-speed, in-vehicle networking, enabling large amounts of data to be exchanged between each CAN node.

The MCUs address the critical need to secure data on in-vehicle networks with enhanced secure hardware extension (Eshe) support, preventing unauthorized connections to electronic control units (ECUs). The series delivers implementations for body control modules, heating ventilation and air conditioning (HVAC) systems, collision warning systems, gateways, and lighting applications.

The MCUs are based on an ARM Cortex-R5 core with 132-MHz performance and feature up to 1 MiB of high-density embedded flash for application storage. A partial wake-up mode allows the MCUs to minimize average power consumption. Cypress offers a range of variations in the series that enable OEM customers to develop derivative solutions. The series is sampling now and will be in production in early 2017.

“Cars are becoming more connected both externally and internally, and for in-vehicle networking, our automotive customers are looking for faster performance with robust security to prevent ECUs from being hacked,” said Takeshi Fuse, Senior Vice President of the Automotive Business Unit at Cypress. “Our new 40 nm Traveo MCUs with CAN FD and Eshe support are optimized to enable secure, high-speed, in-vehicle networking to a wide range of body electronics applications.”

[ae](#)