FlexRay—For the Future of the Automobile

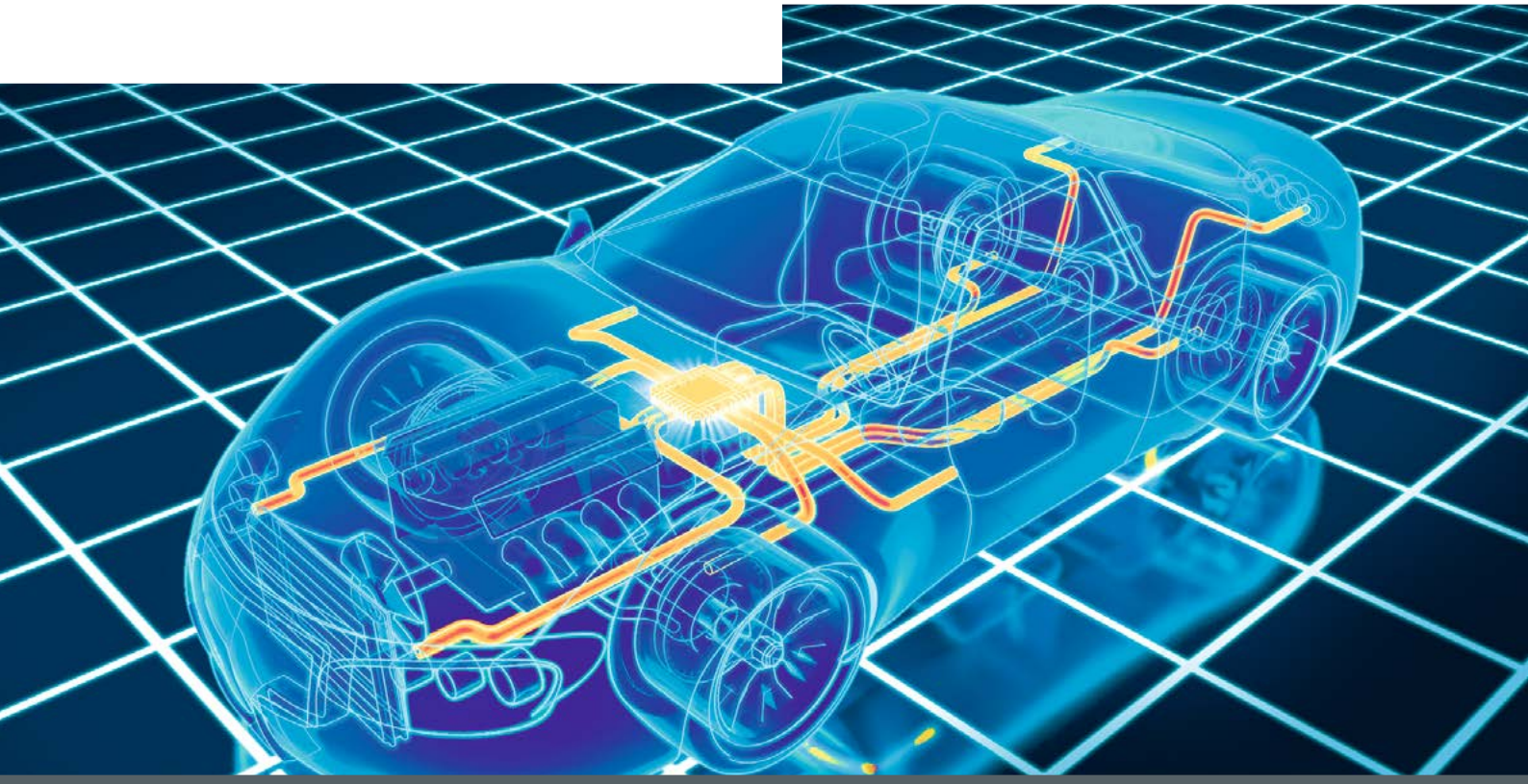
The growing implementation of high-end car functions, such as sensor-assisted driver assistant and chassis control systems even in mid-range automobiles, has lead to a rapidly increasing application of the fast and reliable FlexRay protocol. Consequently, as is the case for CAN and LIN, hard real-time capabilities are likewise required for FlexRay test systems and the manufacturing of FlexRay components in order to achieve highly accurate results and to develop efficient test procedures.

As part of the Kithara real-time extension, the FlexRay Module represents an essential link between test software and physical test system, which allows for the application of real-time capabilities with accurate cycles for high-precision operations.

This way, a Windows PC can be utilized as an actual FlexRay node. This includes the assignment as leading or following cold start node within the network. Both FlexRay channels can be configured independently from each other while it is possible to flexibly adjust their baud rate (2,5/5/10 Mbit/s).

The frequent integration of the protocol is based on guaranteed latencies, a high data rate of 10 MBit/s (20 MBit/s when using both channels) as well as high resistance to interferences by utilizing the second channel for redundant data transfer.

For an up-to-date overview of Kithara products and a variety of test versions visit our website at > www.kithara.com.



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