Simulation and Hardware Implementation of Data Communication Between CAN Controllers for Automotive Applications

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Abstract : In automobile industries, Controller Area Network (CAN) is widely used to reduce the system complexity and intertask communication. Therefore, this paper proposes the hardware implementation of data frame communication between one controller to other. The CAN data frames and protocols will be explained deeply, here. The data frames are transferred without any collision or corruption. The simulation is made in the KEIL vision software to display the data transfer between transmitter and receiver in CAN. ARM7 micro-controller is used to transfer data's between the controllers in real time. Data transfer is verified using the CRO.

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