Secure HS-CAN Transceiver with Standby Mode

TJA1152

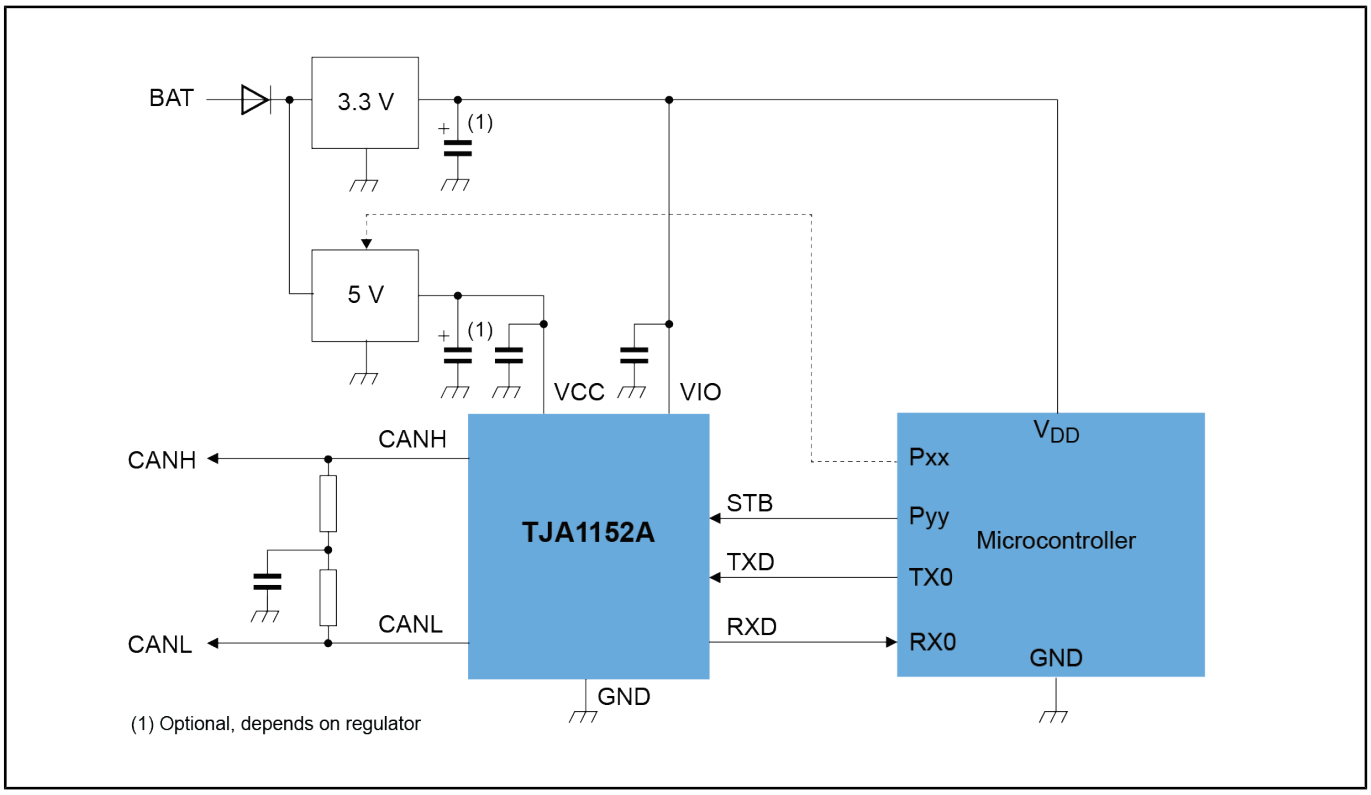
Last Updated: Dec 24, 2025

NXP's new secure CAN transceiver TJA1152 provides a seamless and very cost-effective solution for securing classical CAN and CAN FD communication without cryptography. The TJA1152 belongs to a new generation of automotive high-speed CAN/CAN FD transceivers, offering security functions. It provides an interface between a classical CAN or CAN FD protocol controller and the physical two-wire CAN bus. As long as no security incidents have been detected, the TJA1152 behaves like a standard CAN transceiver with Standby mode.

The security incidents that can be detected and contained are:

- Flooding the bus from the local node
- Transmitting a CAN message with an identifier that has not been assigned to the local node for transmission
- Receiving a CAN message from a remote host with an identifier that is identical to one uniquely assigned to this local node
- Tampered messages

TJA1152 Application Block Diagram Block Diagram



View additional information for Secure HS-CAN Transceiver with Standby Mode.

Note: The information on this document is subject to change without notice.