

Product Overview

AMIS-41683: CAN Transceiver, Fault Tolerant, 3.3 V

For complete documentation, see the data sheet.

The new AMIS-41682 and AMIS-41683 are interfaces between the protocol controller and the physical wires of the bus lines in a control area network (CAN). AMIS-41683 is identical to the AMIS-41682 but has a true 3.3V digital interface to the CAN controller. The device provides differential transmit capability but will switch in error conditions to a single-wire transmitter and or receiver. Initially it will be used for low speed applications, up to 125kBaud, in passenger cars. Both AMIS-41682 and AMIS-41683 are implemented in I2T100 technology enabling both high-voltage analog circuitry and digital functionality to co-exist on the same chip. These products consolidate the expertise of ON Semiconductor for in-car multiples transceivers and support together with OREM-002-XTP (VAN), AMIS-30660 and AMIS-30663 (CAN high speed) and AMIS-30600 (LIN) another widely used physical layer.

Features

- Fully compatible with ISO11898-3 standard
- Very low electromagnetic emission (EME)
- Fully integrated receiver filters
- Permanent monitoring of transmit data input
- High electromagnetic susceptibility (EMS) in normal- and low-power modes
- True 3.3V digital I/O interface to CAN controller
- In the event of bus failure, automatic switching to single-wire mode
- The device will automatically reset to differential mode if the bus failure
- During failure modes there is full wake-up capability
- Un-powered nodes do not disturb bus lines

For more features, see the data sheet

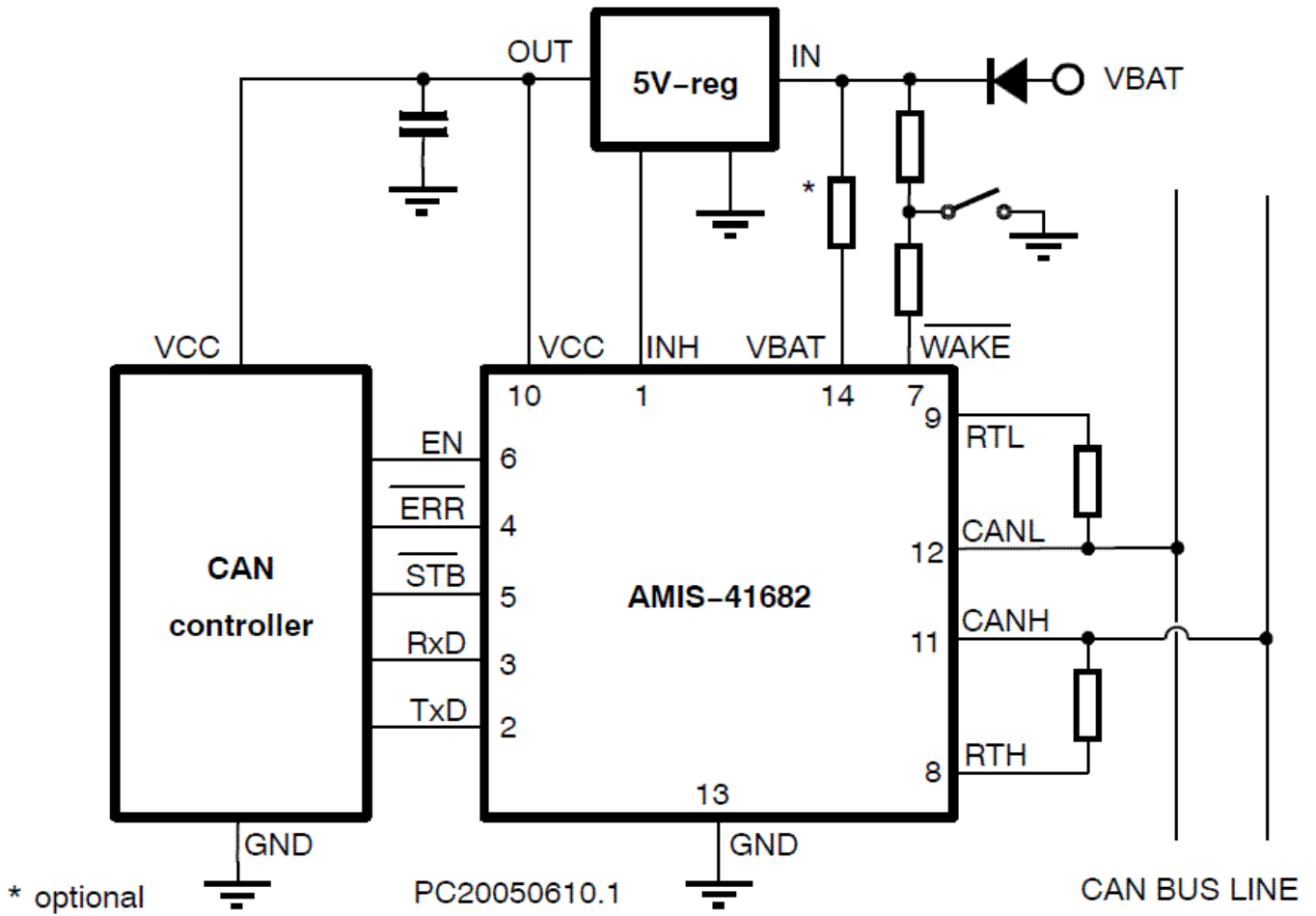
Applications

- In-Vehicle Networking

End Products

- Automobiles

Application Diagram



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