

Product Overview

AMIS-30663: CAN Transceiver, High Speed

For complete documentation, see the data sheet.

The AMIS-30663 CAN transceiver is the interface between a controller area network (CAN) protocol controller and the physical bus and may be used in both 12 V and 24 V systems. The digital interface level is powered from a 3.3 V supply providing true I/O voltage levels for 3.3 V CAN controllers. The transceiver provides differential transmit capability to the bus and differential receive capability to the CAN controller. Due to the wide common-mode voltage range of the receiver inputs, the AMIS-30663 is able to reach outstanding levels of electromagnetic susceptibility (EMS). Similarly, extremely low electromagnetic emission (EME) is achieved by the excellent matching of the output signals.

Features

- Fully compatible with the ISO 11898-2 standard
- Certified Authentication on CAN Transceiver Conformance (d1.1)
- High Speed (up to 1 Mbit/s)
- Ideally suited for 12V and 24V industrial and automotive applications
- Low EME common-mode-choke is no longer required
- Differential receiver with wide common-mode range (+/- 35 V) for high EMS
- No disturbance of the bus lines with an un-powered node
- Transmit data (TxD) dominant time-out function
- Thermal protection
- Bus pins protected against transients in an automotive environment

For more features, see the data sheet

Applications

- In-Vehicle Networking
- Industrial Networking

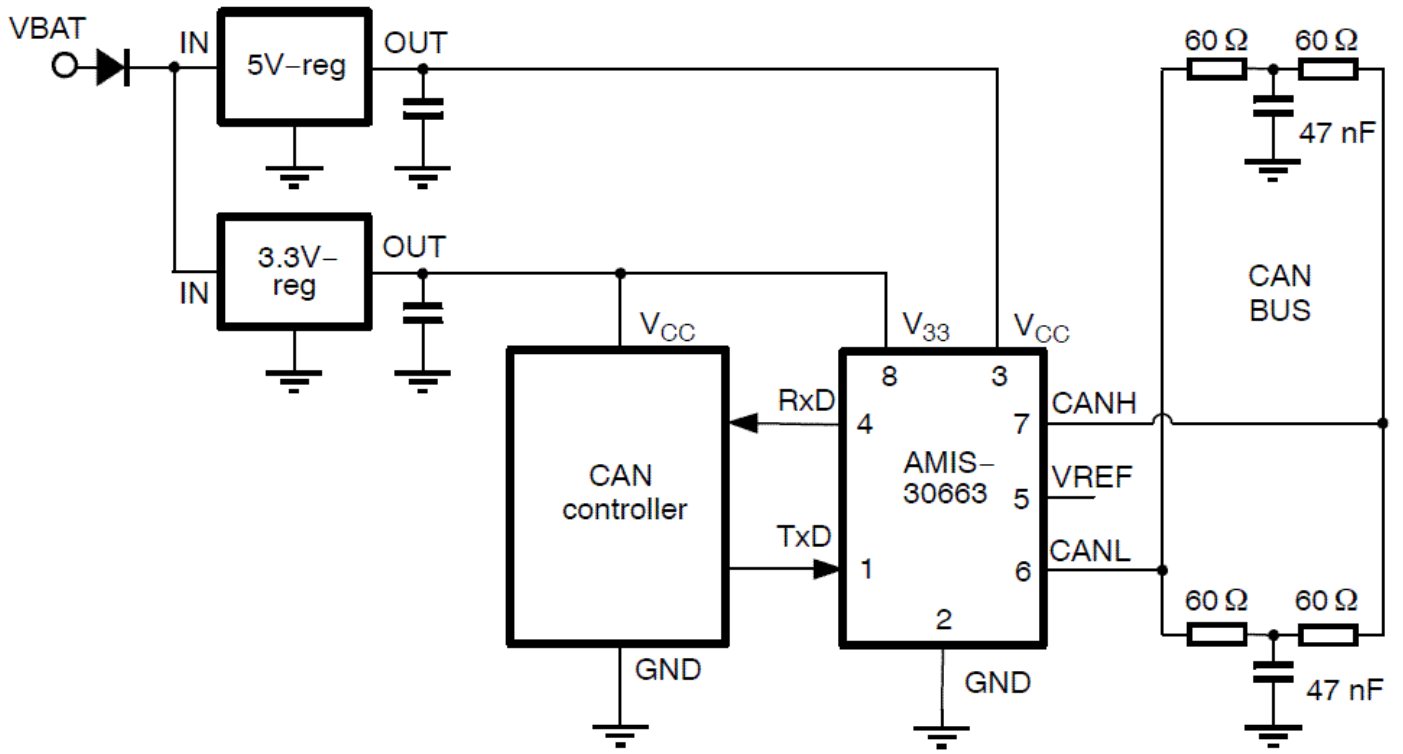
End Products

- Automobiles
- Industrial Equipment

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Data Transmission Standard | Data Rate | Number of Drivers | Number of Receivers | V _{CC} Min (V) | V _{CC} Max (V) | t _{PLH} Max (μs) | I _O Max (μA) | I _{IH} Max (mA) | Package Type |
|------------------|-------------------|---|--------|----------------------------|-----------|-------------------|---------------------|-------------------------|-------------------------|---------------------------|-------------------------|--------------------------|--------------|
| AMIS30663CANG2RG | | AEC Qualified PPAP Capable Pb-free Halide free | Active | CAN | 1 Mb/s | 1 | 1 | 4.75 | 5.25 | | | | SOIC-8 |

Application Diagram



For more information please contact your local sales support at www.onsemi.com.

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