

NCV7342

CAN Transceiver, High Speed, Low Power

Product Overview

For complete documentation, see the data sheet.

The NCV7342 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 transceiver provides differential transmit capability to the bus and differential receive capability to the CAN controller.

The NCV7342 is an addition to the CAN high-speed transceiver family complementing NCV734x stand-alone CAN transceivers and previous generations such as AMIS42665, AMIS3066x, etc.

Due to the wide common-mode voltage range of the receiver inputs and other design features, the NCV7342 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

- Compatible with the ISO 11898-2, ISO 11898-5 Standards
- High Speed (up to 1 Mbps)
- VIO Pin on NCV7342-3 Version Allowing Direct Interfacing with 3 V to 5 V Microcontrollers
- VSPLIT Pin on NCV7342-0 Version for Bus Common Mode Stabilization
- Very Low Current Consumption in Standby Mode with Wake-up via the Bus
- Excellent EMS Level Over Full Frequency Range. Very Low EME. Low EME also without CM Choke.
- Bus Pins Protected Against >15 kV System ESD Pulses
- Transmit Data (TxD) Dominant Time-out Function
- Bus Dominant Time-out function in Standby Mode
- Under All Supply Condition the Chip Behaves Predictably
For more features, see the data sheet

Applications

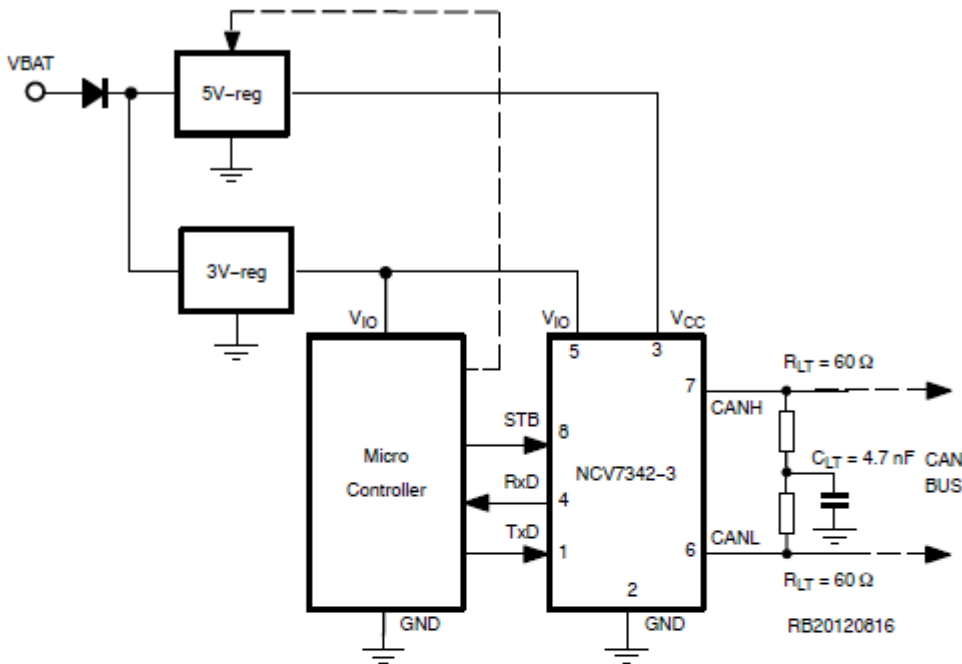
- Automotive
- Industrial Networks

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
NCV7342D10R2G	0.3234		Active	CAN	1 Mb/s	1	1	4.5	5.5				SOIC-8
NCV7342D13R2G	0.3127		Active	CAN	1 Mb/s	1	1	4.5	5.5				SOIC-8
NCV7342MW3R2G	0.3807		Active										DFN-8

Application Diagram

Application Diagram NCV7342-3



Application Diagram NCV7342-0

