

Product Overview

NCV7351: CAN/CAN FD Transceiver, High Speed

For complete documentation, see the data sheet.

The NCV7351 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 NCV7351 is an addition to the CAN high-speed transceiver family complementing NCV734x CAN stand-alone 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 NCV7351 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 Standard
- High Speed (up to 1 Mbps)
- VIO Pin on NCV7351D13 Version Allowing Direct Interfacing with 3V to 5V Microcontrollers
- EN Pin on NCV7351D1E Version Allowing Switching the transceiver to a Very Low Current OFF Mode
- Excellent Electromagnetic Susceptibility (EMS) Level Over Full Frequency Range. Very Low Electromagnetic Emissions (EME) Low EME also Without Common Mode (CM) Choke
- Bus Pins Protected Against >15 kV System ESD Pulses
- Transmit Data (TxD) Dominant Time-out Function
- Under all Supply Conditions the Chip Behaves Predictably. No Disturbance of the Bus Lines with an Unpowered Node
- Bus Pins Short Circuit Proof to Supply Voltage and Ground
- Bus Pins Protected Against Transients in an Automotive Environment

For more features, see the data sheet

Applications

- Automotive
- Industrial Networks

Part Electrical Specifications

Product	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
NCV7351D10R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	1 Mb/s	1	1	4.5	5.5				SOIC-8
NCV7351D13R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	1 Mb/s	1	1	4.5	5.5				SOIC-8
NCV7351D1ER2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	1 Mb/s	1	1	4.5	5.5				SOIC-8
NCV7351FD13R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	2 Mb/s	1	1	4.5	5.5				SOIC-8

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