

Product Overview

NCV7344: CAN FD Transceiver, High Speed, Low Power

For complete documentation, see the data sheet.

The NCV7344 CAN transceiver is the interface between a controller area network (CAN) protocol controller and the physical bus. The transceiver provides differential transmit capability to the bus and differential receive capability to the CAN controller. The NCV7344 is an addition to the CAN high-speed transceiver family complementing NCV734x CAN stand-alone transceivers and previous generations such as AMIS42665, AMIS3066x, etc. The NCV7344 guarantees additional timing parameters to ensure robust communication at data rates beyond 1 Mbps to cope with CAN flexible data rate requirements (CAN FD). These features make the NCV7344 an excellent choice for all types of HS-CAN networks, in nodes that require a low-power mode with wake-up capability via the CAN bus.

Features

- Compatible with ISO 11898-2:2016
- CAN FD timing specified up to 5 Mbps
- VIO pin on NCV7344-3 Version Allowing Direct Interfacing with 3 V to 5 V Microcontrollers
- Very Low Current Standby Mode with Wake-up via the Bus
- Low Electromagnetic Emission (EME) and High Electromagnetic Immunity
- Very Low EME without Common-mode (CM) Choke
- No Disturbance of the Bus Lines with an Un-powered Node
- Transmit Data (TxD) Dominant Timeout Function
- Under All Supply Conditions the Chip Behaves Predictably
- Very High ESD Robustness of Bus Pins, >8 kV System ESD Pulses

For more features, see the data sheet

Applications

- Automotive
- Industrial Networks

End Products

- Powertrain, Chassis, Body, ...

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
NCV7344AD10R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				SOIC-8
NCV7344AD13R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				SOIC-8
NCV7344AMW0R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				DFNW-8
NCV7344AMW3R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				DFNW-8
NCV7344D10R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				SOIC-8
NCV7344D13R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				SOIC-8
NCV7344MW0R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				DFNW-8
NCV7344MW3R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				DFNW-8

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

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