

Product Overview

NCV7446: Dual CAN FD Transceiver, High Speed, Low Power

For complete documentation, see the data sheet.

NCV7446 is two channel physical layer device using the Controller Area Network (CAN) protocol. It allows interfacing of two independent CAN physical buses and two independent CAN protocol controllers. The transceivers provide differential transmit capability to the bus and differential receive capability to the CAN controllers. It is consisted of two totally independent NCV7344 transceivers.

The NCV7446 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 NCV7446 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 the ISO 11898-2:2016
- CAN FD timing specified up to 5 Mbps
- Very low current standby mode with wake-up via the bus
- Low Electromagnetic Emission (EME) and high Electromagnetic Immunity
- 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
- Thermal protection
- Bus pins short circuit proof to supply voltage and ground

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
NCV7446MW0R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	2	2	4.75	5.25				DFNW-14

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

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