

## Product Overview

### NCV7381B: FlexRay® Transceiver, Clamp 30

For complete documentation, see the data sheet.

NCV7381B is a single-channel FlexRay transceiver compliant with the FlexRay Electrical Physical Layer Specification Rev. 3.0.1, capable of communicating at speeds of up to 10 Mbit/s. It provides differential transmit and receive capability between a wired FlexRay communication medium on one side and a protocol controller and a host on the other side. NCV7381B mode control functionality is optimized for nodes permanently connected to car battery. It offers excellent EMC and ESD performance.

### Features

- Compliant with FlexRay Electrical Physical Layer Specification Rev 3.0.1
- FlexRay Transmitter and Receiver in Normal-power Modes for Communication up to 10 Mbit/s
- Support of 60 ns Bit Time
- FlexRay Low-power Mode Receiver for Remote Wakeup Detection
- Excellent Electromagnetic Susceptibility (EMS) Level over Full Frequency Range. Very Low Electromagnetic Emissions (EME)
- Bus Pins Protected against >10 kV System ESD Pulses
- Safe Behavior under Missing Supply or No Supply Conditions
- Interface Pins for a Protocol Controller and a Host (TxD, RxD, TxEN, RxEN, STBN, BGE, EN, ERRN)
- INH Output for Control of External Regulators
- Local Wakeup Pin WAKE

For more features, see the data sheet

### Applications

- In Vehicle Networking
- Powertrain
- X-by-Wire
- Safety

### End Products

- Automobiles

### Part Electrical Specifications

Product	Compliance	Status	Data Transmission Standard	Data Rate	Number of Drivers	Number of Receivers	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	t <sub>PLH</sub> Max (μs)	I <sub>O</sub> Max (μA)	I <sub>IH</sub> Max (mA)	Package Type
NCV7381BDP0R2G	AEC Qualified PPAP Capable Pb-free Halide free	NEW	FlexRay	10 Mb/s	1	1	5.5	50				SSOP-16

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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