

Product Overview

NCV7329: LIN Transceiver, Stand-alone

For complete documentation, see the data sheet.

The NCV7329 is a fully featured local interconnect network (LIN) transceiver designed to interface between a LIN protocol controller and the physical bus. The LIN bus is designed to communicate low rate data from control devices such as door locks, mirrors, car seats, and sunroofs at the lowest possible cost. The bus is designed to eliminate as much wiring as possible and is implemented using a single wire in each node. Each node has a slave MCU-state machine that recognizes and translates the instructions specific to that function. The main attraction of the LIN bus is that all the functions are not time critical and usually relate to passenger comfort.

Features

- LIN-Bus Transceiver ♦ Compliant to ISO 17987-4 (Backwards Compatible to LIN Specification rev. 2.x, 1.3) and SAE J2602 ♦ Bus Voltage 42 V ♦ Transmission Rate 1 kbps to 20 kbps ♦ TxD Timeout Function ♦ Integrated Slope Control
- Protection ♦ Thermal Shutdown ♦ Undervoltage Protection ♦ Bus Pins Protected Against Transients in an Automotive Environment
- Modes ♦ Normal Mode: LIN Transceiver Enabled, Communication via the Bus is Possible ♦ Sleep Mode: LIN Transceiver Disabled, the Consumption from VBB is Minimized ♦ Standby Mode: Transition Mode Reached after Wake-up Event on the LIN Bus
- Compatibility ♦ Pin-Compatible Subset with NCV7321 ♦ K-line Compatible
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

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
NCV7329D10R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	LIN	20 kbaud	1	1	5	18				SOIC-8
NCV7329MW0R2G	0.29	AEC Qualified PPAP Capable Pb-free Halide free	NEW	LIN	20 kbaud	1	1	5	18				DFNW-8

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