

Product Overview

NCV7429: System Basis Chip with LIN, LS and HS Switches

For complete documentation, see the data sheet.

The NCV7429 is a monolithic LIN System-Basis-Chip with enhanced feature set useful in Automotive Body Control systems. Besides the LIN bus interface the IC features a 5 V voltage regulator, high-side and low-side switches to control LEDs and relays, and supervision functionality like a window watchdog. This allows a highly integrated solution by replacing external discrete components while maintaining the system flexibility. As a consequence, the board space and ECU weight can be minimized.

Features

- Main Supply Functional Operating Range from 5 V to 28 V
- Main Supply Parametrical Operating Range 6 V to 18 V
- LIN Physical Layer According to LIN 2.x and SAE J2602
- Power Management Through Operating Modes: Normal, Standby, Sleep and Flash
- Software Development Mode for Software Debugging
- Low Drop Voltage Regulator VR1: 5 V/150 mA, 2%
- One Wake-up Input, e.g. for Contact Monitoring
- Wake-up Logic with Cyclic Contact Monitoring
- Wake-up Source Recognition
- Independent PWM Functionality for All Outputs (Integrated PWM Registers)

For more features, see the data sheet

Applications

- De-centralized Door Electronic Systems

End Products

- Automotive Rear Door

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 _{HH} Max (mA)	Package Type
NCV7429DE5R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	LIN	20 kbaud	5	1	5	28				TSSOP-20

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

Created on: 6/3/2020