

Product Overview

NCV7462: System Basis Chip with CAN, LIN, HS & LS Drivers

For complete documentation, see the data sheet.

The NCV7462 is a monolithic LIN/CAN System-Basis-Chip with enhanced feature set useful in Automotive Body Control systems. Besides the bus interfaces the IC features two 5V voltage regulators, high-side and low-side switches to control LED's 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 5V to 28V
- Main Supply Parametrical Operating Range 6V to 18V
- CAN High Speed Transceiver Compliant to ISO11898
- TxD Time-out on CAN
- LIN Physical Layer According to LIN 2.1 and SAEJ2602
- Programmable TxD Time-out on LIN
- Power Management Through Operating Modes: Normal, Standby, Sleep and Flash
- Low Drop Voltage Regulator VR1: 5V/250mA, $\pm 2\%$ Output Tolerance
- Reverse Current Protected Low Drop Voltage Regulator VR2: 5V/50mA, $\pm 2\%$ Output Tolerance
- 3x Wake-up Inputs, e.g. For Contact Monitoring

For more features, see the data sheet

Applications

- De-centralized Door Electronic Systems
- Body Control Units (BCUs)
- Climate Control Systems

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
NCV7462DQ1R2G	2.1158	AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN LIN	20 kbaud 1 Mb/s	2	2	5	28				SSOP-36 EP

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

Created on: 8/26/2020