

NCV7357

CAN FD Transceiver, High Speed

Product Overview

For complete documentation, see the data sheet.

The NCV7357 CAN transceiver is the interface between a controller area network (CAN) protocol controller and the physical bus. The transceiver provides differential transmit capability to the bus and differential receive capability to the CAN controller. The NCV7357 is an addition to the CAN high-speed transceiver family complementing NCV7344 CAN stand-alone transceivers and previous generations such as AMIS42665, AMIS3066x, etc. The NCV7357 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 NCV7357 an excellent choice for all types of HS-CAN networks, in nodes that require only a basic CAN capability.

Features

- Compatible with ISO 11898-2:2016
- CAN FD Timing Specified up to 5 Mbps
- VIO Pin on NCV7357-3 Version Allowing Direct Interfacing with 3 V to 5 V Microcontrollers
- Low Current, Listen Only Silent Mode
- Low Electromagnetic Emission (EME) and High Electromagnetic Immunity
- Very Low EME without Common-mode (CM) Choke
- No Disturbance of the Bus Lines with an Unpowered Node
- Transmit Data (TxD) Dominant Timeout Function
- Under All Supply Conditions the Chip Behaves Predictably
- Very High ESD Robustness of Bus Pins, >8 kV System ESD Pulses

For more features, see the data sheet

Applications

- Automotive
- Industrial Networks

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
NCV7357D10R2G	0.3606		Active	CAN	5 Mbps	1	1	4.75	5.25				SOIC-8
NCV7357D13R2G	0.3606		Active	CAN	5 Mbps	1	1	4.75	5.25				SOIC-8
NCV7357MW0R2G	0.5555		Active	CAN	5 Mbps	1	1	4.75	5.25				DFNW-8
NCV7357MW3R2G	0.5555		Active	CAN	5 Mbps	1	1	4.75	5.25				DFNW-8