

NCV7343

CAN FD Transceiver, Low Power, with INH, WAKE and Error Detection

Product Overview

For complete documentation, see the data sheet.

The NCV7343 CAN FD 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 NCV7343 is an addition to the CAN high-speed transceiver family complementing NCV734x CAN stand-alone transceivers and previous generations such as AMIS42665, AMIS3066x, etc.

The NCV7343 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 NCV7343 an excellent choice for all types of HS-CAN networks, in nodes that require a low-power mode with wake-up capability via the CAN bus.

Features

- ISO 11898-2:2016 Compatible
- CAN FD Timing Specified up to 5 Mbps
- Low-power Standby and Sleep Mode
- VIO Pin for Digital Signals Logic Level Adaptation
- High Impedance Bus Lines in Unpowered State
- Extended Bus Load Range
- CAN Wake-up with Wake-up Pattern (WUP)
- INH Pin
- Thermal Protection
- Local Wake-up with Input Filter

For more features, see the data sheet

Applications

- Automotive
- Industrial Networks





Benefits

- Compliant with the latest international standard
- Ideal for transmitting large payload messages
- Very low current consumption in Standby and Sleep operating mode
- Allows direct interfacing of 3 V to 5 V MCUs
- Minimum bus loading when unpowered
- Allows for higher number of bus nodes
- Robust remote wake-up mechanism
- Direct voltage regulators control
- Minimizes the risk of permanent damage in case of exceeding the limits
- Robust local wake-up mechanism optimizes for direct mechanical switch connection

End Products

- Car

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 _H Max (mA)	Package Type
NCV7343D20R2G	0.4894		Active	CAN	5 Mbps	1	1	5	40				SOIC-14
NCV7343D21R2G			Active	CAN	5 Mbps	1	1	5	40				SOIC-14
NCV7343MW0R2G	0.6707		Active	CAN	5 Mbps	1	1	5	40				DFNW-14
NCV7343MW1R2G			Active	CAN	5 Mbps	1	1	5	40				DFNW-14