



# MCP2562 ☆

## High-speed CAN Transceiver with Standby Mode and VIO Pin

Status: Not Recommended for new designs

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### Features:

- Supports 1 Mb/s operation
- Implements ISO-11898-5 standard physical layer requirements
- AEC-Q100 Grade 0
- Very low standby current (Typ: 5µA)
- VIO supply pin (MCP2562) to interface directly to CAN controllers and microcontrollers with 1.8V to 5V I/O
- SPLIT output pin (MCP2561) to stabilize common mode in biased split termination schemes

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## Device Overview

### Summary

The MCP2561/2 is Microchip Technology Inc. second generation high-speed CAN transceiver. It serves as an interface between a CAN protocol controller and the physical two-wire CAN bus. The device meets the automotive requirements for high-speed (1 Mb/s), low quiescent current, electromagnetic compatibility (EMC) and electrostatic discharge (ESD). The device family members are: • MCP2561 with SPLIT pin • MCP2562 with VIO pin

Please consider this device [MCP2562FD](#)

### Additional Features

- Supports 1 Mb/s operation
- Implements ISO-11898-5 standard physical layer requirements
- AEC-Q100 Grade 0
- Very low standby current (Typ: 5µA)
- VIO supply pin (MCP2562) to interface directly to CAN controllers and microcontrollers with 1.8V to 5V I/O
- SPLIT output pin (MCP2561) to stabilize common mode in biased split termination schemes
- CAN bus pins are disconnected when device is unpowered. An unpowered node or brown-out event will not load the CAN bus
- Detection of ground fault; Permanent dominant detection on TXD, Permanent dominant detection on bus
- Power-on Reset and voltage brown-out protection on VDD and VIO pin
- Protection against damage due to short-circuit conditions (positive or negative battery voltage)
- Protection against high-voltage transients in automotive environments
- Automatic Thermal Shutdown protection
- Suitable for 12V and 24V systems

### Parametrics

Name	Value
Temp. Range (°C)	-40 to +150
Operating Voltage Rang...	4.5 to 5.5

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