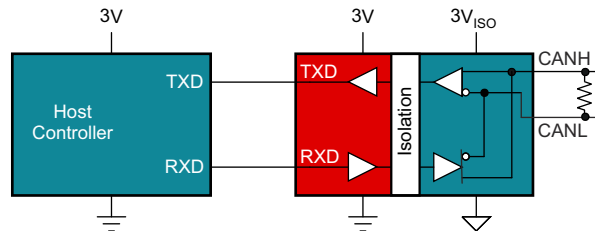


Product Overview

Isolating for CAN



Example CAN Isolation Block Diagram

Design Considerations

- Prevents DC and unwanted AC currents between controller devices and peripheral ICs
- Allows signal and power transfer between controller devices and peripheral ICs
- Protects low voltage parts in a system from high voltage circuits
- Diminishes the effect of ground potential difference
- [\[FAQ\] What is the difference between basic and reinforced digital isolators?](#)
- [\[FAQ\] Can I power the two sides of a digital isolator with different voltages?](#)
- [Isolate Your CAN Systems Without Compromising on Performance or Space](#)
- [Top Design Questions About Isolated CAN Bus Design](#)
- [Isolated CAN Reference Design](#)
- [Digital Isolator Design Guide](#)
- Need additional assistance? Ask our engineers a question on the [TI E2E™ Isolation Support Forum](#)

Recommended Parts

Part Number	AEC-Q100	Voltage Range	Isolation Voltage	Max Data Rate	Features
ISO1044		1.71 - 5.5 V	3 kVrms	5 Mbps	Small package
ISO1042	✓		5 kVrms	5 Mbps	70-V bus fault protection Flexible data rate
ISO1050		3.3 - 5.5 V	4243 Vrms	1 Mbps	
ISOW1044		1.71 - 5.5 V	5 kVrms	5 Mbps	Integrated high-efficiency DC-DC converter Low-emissions

For more devices, browse through the [online parametric tool](#) where you can sort by desired voltage, channel numbers, and other features.

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