

CAN Interface IC 5kVrms Int Signal + Power ISO CAN Xcvr

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | SOIC-16 |
| Product Type | Interface ICs |
| RoHS | Rohs |
| Lifecycle | |



Images are for reference only

Please submit RFQ for ADM3054BRWZ-RL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADM3054 is a 5 kV rms signal isolated controller areanetwork (CAN) physical layer transceiver. The ADM3054complies with the ISO 11898 standard.

The device employs Analog Devices, Inc., iCoupler® technologyto combine a 3-channel isolator and a CAN transceiver into a single package. The logic side of the device is powered with a single 3.3 V or 5 V supply on VDD1 and the bus side uses a single5 V supply on VDD2 only. Loss of power on the bus side (VDD2)can be detected by an integrated VDD2SENSE signal.

The ADM3054 creates an isolated interface between the CANprotocol controller and the physical layer bus. It is capable ofrunning at data rates of up to 1 Mbps.

The device has integrated protection on the bus pins, CANHand CANL against shorts to power/ground in 24 V systems.

The device has current-limiting and thermal shutdown featuresto protect against output short circuits and situations where thebus might be shorted to ground or power terminals. The part isfully specified over the industrial temperature range and isavailable in a 16-lead, wide-body SOIC package.

Features

5 kV rms signal isolated CAN transceiver

5 V or 3.3 V operation on VDD1

5 V operation on VDD2

VDD2SENSE to detect loss of power on VDD2

Complies with ISO 11898 standard

High speed data rates of up to 1 Mbps

Short-circuit protection on CANH and CANL against shorts to power/ground in 24 V systems

Unpowered nodes do not disturb the bus

Connect 110 or more nodes on the bus

Thermal shutdown protection

High common-mode transient immunity: >25 kV/μs

Safety and regulatory approvals

UL recognition

5000 V rms for 1 minute per UL 1577

VDE Certificates of Conformity

DIN V VDE V 0884-10 (VDE V 0884-10);>

Industrial operating temperature range: -40°C to +125°C

Wide-body, 16-lead SOIC package

Qualified for automotive applications

Application

CAN data buses

Industrial field networks





Related Products



[ADV7181CBSTZ](#)

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LQFP-64



[AD8170AR](#)

Analog Devices, Inc
SOP8



[AD724JR](#)

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[ADV7393BCPZ](#)

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Analog Devices, Inc
LFSCP-3



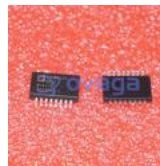
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