

ADM4853ARZ-REEL7

. 500

Data Sheet

Half Duplex RS-485/RS-22 Transceiver w/10Mbps Data Rate; Package: SOIC; No of Pins: 8; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc	E E
Package/Case	SOIC-8	E
Product Type	Interface ICs	EFE
RoHS	Rohs	
Lifecycle		Images are for reference only
Please submit RFQ for ADM4853ARZ-REEL7 or Email to us: sales@ovaga.com We will contact you in 12 hours.		

General Description

The ADM4850 / ADM4851 / ADM4852 / ADM4853 / ADM4854 /ADM4855 / ADM4856 / ADM4857 are differential line transceiverssuitable for high speed, half-duplex and full duplex data communication on multipoint bus transmission lines. Theyare designed for balanced data transmission and comply with EIA Standards RS-485 and RS-422. The ADM4850 / ADM4851 / ADM4852 / ADM4853 are half-duplex transceivers that sharedifferential lines and have separate enable inputs for the driver and receiver. The full duplex ADM4854 / ADM4855 / ADM4856 / ADM4857 transceivers have dedicated differential line driveroutputs and receiver inputs.

The devices have a 1/8-unit load receiver input impedance, which allows up to 256 transceivers on one bus. Because only onedriver must be enabled at any time, the output of a disabled or powered down driver is three-stated to avoid overloading the bus.

The receiver inputs have a true fail-safe feature, which ensures a logic high output level when the inputs are open or shorted.

This guarantees that the receiver outputs are in a known state before communication begins and when communication ends. The driver outputs are slew rate limited to reduce EMI and data errors caused by reflections from improperly terminated buses. Excessive power dissipation caused by bus contention or by output shorting is prevented with a thermal shutdown circuit.

The devices are fully specified over the commercial and industrial temperature ranges and are available in 8-lead SOIC (ADM4850through ADM4857), 8-lead LFCSP (ADM4850 / ADM4852 / ADM4853), and 8-lead MSOP (ADM4850 only) packages.

Features

Electronics industries alliance (EIA) RS-485/RS-422 compliant

Data rate: 10 Mbps

- Half-duplex and full duplex options
- Reduced slew rates for low electromagnetic interference (EMI)
- True fail-safe receiver inputs
- 5 µA (maximum) supply current in shutdown mode
- Up to 256 transceivers on one bus
- Outputs high-Z when disabled or powered off
- Thermal shutdown and short-circuit protection
- Pin-compatible with the MAX308x
- Specified over the -40° C to $+85^{\circ}$ C temperature range
- Available in 8-lead SOIC, 8-lead LFCSP, and 8-lead MSOP
- Qualified for automotive applications

Related Products



ADV7181CBSTZ Analog Devices, Inc LQFP-64

AD724JR

SOIC-16









ADV7391WBCPZ Analog Devices, Inc

Analog Devices, Inc

LFSCP-3 ADV7341BSTZ

Analog Devices, Inc LQFP-64



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ADV7393BCPZ

Analog Devices, Inc LFCSP-VQ-40

ADV7390BCPZ Analog Devices, Inc QFN32

ADUM4160BRIZ

Analog Devices, Inc SOIC-16

Low power RS-485 applications

EMI sensitive systems

Application

DTE to DCE interfaces

Industrial control

Packet switching

Local area networks

Level translators