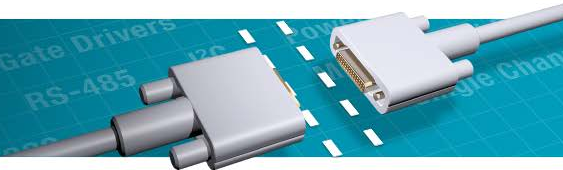




Interface and Isolation Update



New Products

[Micropower, Dual-Channel Digital Isolators](#)

iCoupler®

The ADuM124x can be powered by as little as 1 μ W of power, delivering power levels over 1000 times lower than optocouplers and competing digital isolators.

- Ultralow power operation
- 3.75 kV rms
- Up to 2 Mbps data rate (NRZ)
- Bidirectional communication
- Multiple channel configurations available
- Default high and default low options available
- High temperature operation: 125°C
- Quad-channel products also available

The ADuM124x is production released with samples available.

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[3 kV rms](#) and [5 kV rms](#) Isolated Precision Half Bridge Drivers, 4 A Output for Automotive

iCoupler®

These isolation components provide outstanding performance characteristics superior to the alternatives, such as the combination of pulse transformers and gate drivers.

- Working voltage high-side or low-side relative to input: 565 V peak
- High frequency operation: 1 MHz maximum
- 3.3 V to 5 V CMOS input logic
- 4.5 V to 18 V output driver
- No thermal shutdown
- High common-mode transient immunity: > 25 kV/ μ s
- Default low output
- High junction temperature operation: 125°C

The ADuM3224 is production released with samples available.

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The ADuM4224 is production released with samples available.

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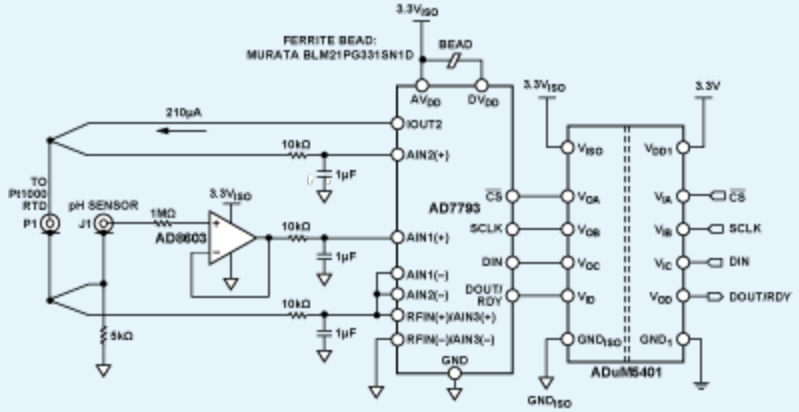
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[CN0326](#): Isolated, Low Power pH Monitor with Temperature Compensation

Circuits from the Lab®
Reference Designs

This circuit supports a wide variety of pH sensors that have very high internal resistance that can range from 1 M Ω to several G Ω , and digital signal and power isolation provides immunity to noise and transient voltages often encountered in harsh industrial environments.



[Read this circuit note and download the design files.](#)

Circuit Note



Explore in Signal Chain Designer



Featured Technical Article



Making Isolation Safety Standards Work for You

Featured Selection Guide



Digital Isolator Product Selection and Resource Guide

Featured Application Note



AN-1176
APPLICATION NOTE

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Component Footprints and Symbols in the Binary .Bxl File Format

by Richard Annow

INTRODUCTION
Analog Devices, Inc. provides symbols and footprints for components created in a single format, that is, a Binary .Bxl File. The .Bxl files have been created using the Chip Library tool offered by Analog and Design, Inc. A list of components of the Chip Library tool is available below from the Accelerated Design website.
Customers can download the Chip Library tool to open the component library .Bxl file. For example, Analog Devices has created a .Bxl file for the AD7793 (part number AD7793-ADZ) component. This .Bxl file will provide a link to download the Chip Library tool.
Once the .Bxl file is opened, the Chip Library tool allows the user to select and export to a project or set of files (.CAD) files, including cables, iCoupler, ADuM401, etc.

- the AD7793 signal and power isolated CAN transceiver AD7793-ADZ
- the AD7793 multiplexed low voltage differential signaling (LVDS) transceiver AD7793-ADZ

The AD7793 is a fully integrated signal and power isolated RS-485/422 data transceiver with LVDS I/O operation, which is suitable for high speed communication on multiple transmission lines. The AD7793 includes an integrated isolated dc-to-dc power supply (Analog Devices software), which eliminates the need for an external dc-to-dc converter block. The device integrates the Analog Devices iCoupler technology to combine a three-wire isolated, a three-wire differential line driver, a differential input receiver, and software.

Component Footprints and Symbols in the Binary (.Bxl) File Format

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