



Analog Devices' Digital Isolation Update *iCoupler*® News

New Products

ADuM7440/ADuM7441/ADuM7442

The ADuM744x 1kV rms digital isolation products are packaged in a 16-lead QSOP. While other four-channel isolators come in 16-lead SOIC wide body packages, the ADuM744x free up almost 70% of board space. In addition to space savings, the ADuM744x offers lower pricing than 2.5kV or 5kV rms isolators where only functional isolation is needed.

[Learn more about the ADuM744x digital isolators here.](#)

Inside *iCoupler* Technology

iCoupler Digital Isolators with 1kV rms Rating – By Baoxing Chen

The recently announced family of *iCoupler* digital isolators, ADuM744x, delivers the industry's smallest, most effective isolation solution. They achieve this by scaling down the isolation capability of our standard *iCoupler* digital isolators using a different insulation layer. Despite the reduced isolation rating, 1kV rms for 1 minute, these digital isolators have wide application in a number of systems.

[Read the entire *iCoupler* article in this PDF.](#)
(65,536 bytes)

NAppkin Note



NAppkin Notes – written expressly for the Digital Isolation Update – are ideas, hints, and tips for building with *iCoupler* technology.

ADuM1100 for Low Power Application

By Brian Kennedy

The ADuM1100 circuit discussed in this NApp Note can be used in applications requiring minimal power consumption with a low duty cycle and minimum pulse width of about 1µs.

[Read the entire *iCoupler* application note in this PDF.](#) (163,840 bytes)

Circuits from the Lab

Fully Isolated Input Module Based on the AD7793 24-Bit Σ - Δ ADC, the ADuM5401 Digital Isolator, and a High Performance In-Amp

This circuit provides a complete solution for an industrial control input module. This design is suitable for process control programmable logic controllers (PLCs) and distributed control systems (DCSes) modules that must digitize standard 4 mA to 20 mA current inputs and unipolar or bipolar input voltage ranges.

[Learn more here.](#)

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