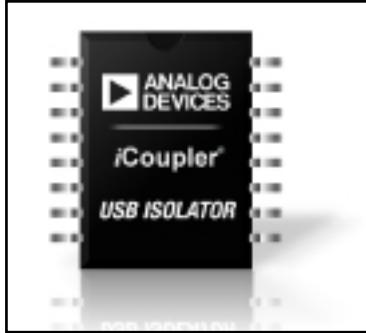


Single IC Enables Isolated USB Connections for Medical and Industrial Equipment



Analog Devices has introduced what is said to be the industry's first single-IC USB isolator (universal serial bus isolator), which simplifies isolated USB-port implementation in system-critical medical and industrial equipment. Using the company's iCoupler digital isolation technology, the ADuM4160 USB isolator offers 5 kV rms medical-grade isolation, upstream short-circuit protection, and fully isolated 1.5-Mbps and 12-Mbps data rates (IEC 60601-1 medical safety approvals pending). The USB 2.0-compliant device provides fully isolated USB functionality at a fraction of the cost and complexity of current data isolation methods, and makes it possible for medical and industrial design engineers to cut implementation costs by up to 25 percent, reduce the size of designs by as much as 50 percent, and trim development time from months to weeks, according to the company. The ADuM4160 operates off the 5-V USB supply or system-supplied 3.3-V power using an internal regulator. The ADuM4160 also provides isolated control of the pull-up resistor, allowing the peripheral to control connection timing. The device's low idle current (2 mA, max) eliminates the need for a suspend state.

Analog Devices, Inc.

800-262-5643, www.analog.com [1]

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