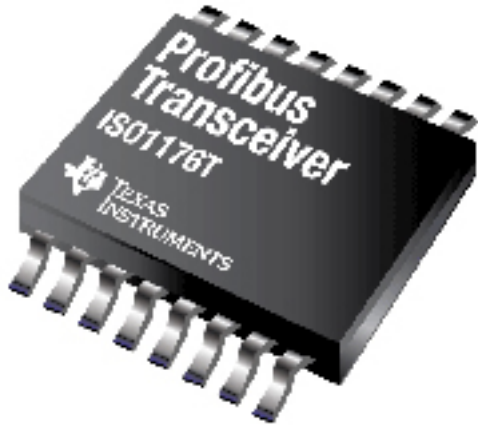


Profibus RS-485 Transceiver Integrates Driver for High Efficiency and Low EMI



Texas Instruments introduced an isolated half-duplex differential line transceiver with integrated transformer driver. The ISO1176T provides the primary voltage for an isolation transformer and, in conjunction with an external transformer, rectifier and regulator, provides the smallest isolated signal and power system design with highest efficiency and lowest electromagnetic interference (EMI), according to the company. Applications include Profibus systems, factory and building automation, networked sensors, motor/motion control, HVAC, and networked security stations. TI's capacitive isolation technique uses SiO₂ as isolation dielectric to increase reliability and lifetime by more than double that of magnetic or optical isolation techniques, according to the company. It provides 2500 V_{rms} of isolation between the line transceiver and logic-level interface to reduce risk of data corruption and damage to expensive control circuits over long transmission lines.

Texas Instruments

800-477-8924, www.ti.com [1]

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<http://www.ecnmag.com/products/2011/02/profibus-rs-485-transceiver-integrates-driver-high-efficiency-and-low-emi>

Links:

[1] <http://www.ti.com>