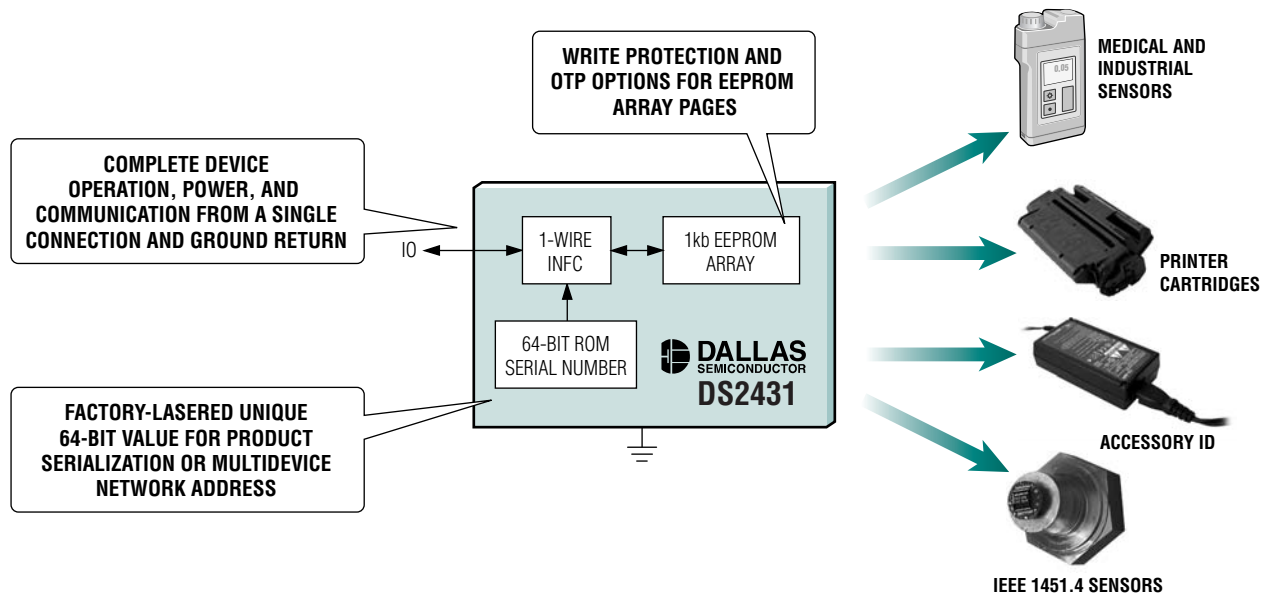


1kb SERIAL EEPROM HAS WORLD'S MOST EFFICIENT 1-WIRE INTERFACE

Only a Single Contact Needed to Embed Serial EEPROM in Connectors, Sensors, or Accessories

The DS2431 is a 1kb EEPROM that is communicated with, and powered by the Dallas Semiconductor 1-Wire® interface. Using this single contact, the DS2431 can easily be embedded in applications where electrical contacts are limited or where minimizing wiring complexity is necessary. Programmable features include write protection and an OTP EPROM mode. The OTP EPROM mode is useful for gauging the consumption of a non-replenishable consumable, or keeping a running count of use events on a limited-use product. Host implementation of the 1-Wire interface is easily accomplished using a spare processor port pin or one of the line drivers listed at www.maxim-ic.com/DS2431AD.



- ◆ 1kb EEPROM with Write Protection and EPROM Modes
- ◆ Minimal Host Requirements—Single Pin Completely Controls Device
- ◆ 1-Wire Line Supplies All Operating Power
- ◆ Designed for Hot/Live System Insertion
- ◆ Wide Operating Range: 2.8V to 5.25V, -40°C to +85°C

SEE WWW.MAXIM-IC.COM/DS2431AD
FOR ADDITIONAL INFORMATION
AND FREE SAMPLES!

1-Wire is a registered trademark of Dallas Semiconductor.



www.maxim-ic.com

FREE 1-Wire Products Design Guide—Sent Within 24 Hours!

CALL TOLL-FREE 1-800-998-8800 (6:00 a.m.—6:00 p.m. PT)

For a Design Guide or Free Sample



Distributed by Maxim/Dallas Direct!, Arrow, Avnet Electronics Marketing, Digi-Key, and Newark.

MAXIM is a registered trademark of Maxim Integrated Products, Inc. DALLAS is a registered trademark of Dallas Semiconductor, Corp. © 2004 Maxim Integrated Products.