Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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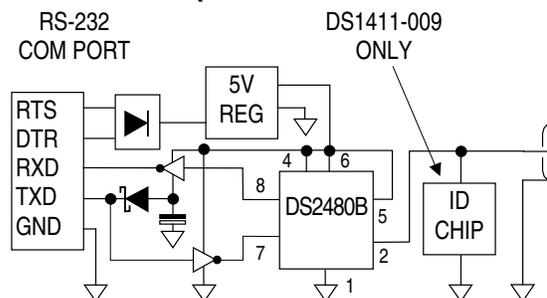
DS1411
Serial Port iButton Holder

FEATURES

- **Small Size, True-Ground Interface to an RS-232 COM Port for Reading and Writing iButton® Devices**

- **CE and FCC Compliant**

- **Works with Bipolar Logic Signals of ±5V to ± 12V (RS-232C) as well as Unipolar Signals of 5V to 12V**

- **Supports Reading and Writing at Standard and Overdrive Speeds**

- **Provides Strong Pullup to 5V for Temperature iButton and EEPROM iButton**

- **Communicates at Data Rates of 9.6kbps (default), 19.2kbps, 57.6kbps, and 115.2kbps**

- **Powered Entirely from an RS-232 Interface**

- **Standard DB9 Female Connector for Mating to the COM Port of a Computer with DS9098P iButton Retainer for a Single iButton**

- **Includes DS2502 Identification Chip (DS1411-009 Version Only)**

SCHEMATIC (FOR ILLUSTRATION)

ORDERING INFORMATION

PART	TYPE
DS1411-009#	DB9 connector, with ID chip
DS1411-S09#	DB9 connector, no ID chip

#Denotes a RoHS-compliant device that may include lead(Pb) that is exempt under the RoHS requirements.

DESCRIPTION

The DS1411 is a sophisticated RS-232-to-1-Wire® adapter and iButton holder that performs RS-232-level conversion and actively generates the 1-Wire communication signals. Together with an adequate software driver, it enables a Windows®-based PC to directly read all and write any non-EPROM iButton devices. The DS1411 has a DS9098P retainer for a single F5 MicroCan. For a list of suitable 1-Wire network cables, e.g., to connect multiple iButtons, refer to the *Connectivity Matrix* table in the DS1402x 1-Wire network cables data sheet. 1-Wire communication is supported by the adapter for standard speed as well as overdrive speed. The serial port must support a data transmission rate of 9600 bits/s. Under software control, the adapter can be set up for RS-232 data rates of 19200bps, 57600bps, and 115200bps. The two higher rates are recommended for communication at overdrive speed with overdrive capable devices. Since the DS1411 operates in a byte mode, every data byte received from the RS-232 port generates eight time slots on the 1-Wire bus. The DS1411 is based on the DS2480B serial 1-Wire line driver chip. The RXD/TXD polarity select input of the DS2480B is connected to V_{DD} (noninverting). Free software drivers can be downloaded from **www.maxim-ic.com/1-Wiredrivers**.

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Windows is a registered trademark of Microsoft Corp.

REVISION HISTORY

REVISION DATE	DESCRIPTION	PAGES CHANGED
7/99	Initial release	—
7/02	Updated *Ordering Information*; updated *Schematic* for conversion from DS2480 to DS2480B and optional ID chip; replaced product graphic with photo; added CE and FCC compliance bullet to *Features*; changed iButton retainer model from DS9098 to DS9098P	1
8/09	Added # to the *Ordering Information* to reflect conversion to a RoHS-compliant product; added *Revision History* table	1, 2
6/11	Deleted references to Crypto iButton, TMEX, DS9097U, and DS1412; added reference to the *Connectivity Matrix* table in the DS1402x 1-Wire network cables data sheet; added the URL for software drivers download	1

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