General Description

The DS28E05 evaluation system (EV system) provides the hardware and software necessary to evaluate the DS28E05 1-Wire[®] EEPROM. The hardware consists of an evaluation board (DS9120P) with RJ11 cable, a Maxim 1-Wire adapter module (DS9481R-3C7) that connects the board to the PC, and a DS28E05 in a TSOC package. All three hardware components are listed in Table 1.

The DS28E05 features 112 bytes of user memory organized as seven pages of 16 bytes. Each page can be write-protected or set into EPROM emulation mode. The evaluation software runs under Windows[®] 8, Windows 7, Windows Vista[®], or Windows XP[®], providing a handy user interface to exercise the features of the DS28E05. The evaluation software is available for download.

Features

- Driver Support for Windows 8, Windows 7, Windows Vista, and Windows XP
- Fully Compliant with USB Specification v2.0
- USB Powered with No External Power Supply Required
- USB to 1-Wire Adapter Utilizes Both the Prolific PL-2303HXD and the Maxim DS2480B Emulator to Create a Virtual COM-to-1-Wire Port on Any PC
- Accommodates TSOC Package IC

Table 1. Required Hardware for PCEvaluation

PART	QTY	DESCRIPTION
DS9120P+	1	EV board with RJ11 cable
DS9481R-3C7+	1	1-Wire USB adapter with USB cable
DS28E05+	5	in a TSOC package
	-	

+Denotes a lead(Pb)-free/RoHS-compliant package.

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Quick Start—Driver Installation

See <u>Figure 1</u> for a photo of the stand-alone EV board with RJ11 cable and <u>Figure 2</u> for a photo of the 1-Wire adapter with USB cable that plugs into the PC.

Required Equipment

- DS9481R-3C7 1-Wire adapter with USB cable
- DS9120P EV board with RJ11 cable
- DS28E05 in a TSOC package
- PC with a Windows 8, Windows 7, Windows Vista, or Windows XP operating system and a spare USB port



Figure 1. DS9120P EV Board with RJ11 Cable



Figure 2. DS9481R-3C7 1-Wire USB Adapter with USB Cable

Ordering Information appears at end of data sheet.



Evaluates: DS28E05

Note: In the following sections, software-related items are identified by bolding. Text in **bold** refers to items directly from the EV kit software. Text in **bold and underlined** refers to items from the Windows operating system.

Procedure

The EV kit is fully assembled and tested. Before connecting to the PC, follow the steps below to verify board operation:

- 1) Insert the DS28E05 in the TSOC socket on the DS9120P EV board.
- 2) Connect the DS9120P EV board to the DS9481R-3C7 1-Wire adapter with the RJ11 cable.
- Do not insert the DS9481R-3C7 into the PC at this time. This should be done in step 12, after all driver software is installed.
- 4) To install the PL-2303HX Prolific Driver (for the DS9481R-3C7), visit <u>http://prolificusa.com/portfo-lio/pl2303hx-rev-d-usb-to-serial-bridge-controller/</u> to download the latest version of the Prolific Windows Driver Installer Setup Program, PL2303_Prolific_DriverInstaller_v1_9_0.zip.
- 5) Unzip the archive and **Run** the executable file that begins with **PL2303_Prolific_DriverInstaller**.
- Follow the directions of the <u>Install Wizard</u> until the PL-2303 USB-to-serial driver installation is finished. Close by clicking the **Finish** button.
- 7) Visit www.maxim-ic.com/1-wiredrivers/ to down-

load and install the 1-Wire Drivers software package.

- 8) When prompted with the question **Do you want to run or save this file?**, select **Run**.
- 9) When you get a security warning that asks **Do you** want to run the software?, select **Run**.
- Read and check the box if you accept the license agreement and click Install. Click the Finish button to exit the <u>Setup Wizard</u>.
- 11) Microsoft .NET Framework Version 3.5 SP1 or newer is required for the program to run. To check whether it is installed, look in the Control Panel under Programs and Features. If .NET is not listed, it is not installed. For download and installation instructions, go to <u>www.microsoft.com/en-us/download/details.</u> aspx?id=22.
- 12) Insert the DS9481R-3C7 into a spare USB port on the PC.
- 13) Determine the COM port by looking in Control Panel

 → System → Hardware tab → Device Manager
 and expand Ports (COM & LPT). The port is Prolific
 USB-to-Serial Comm Port (COM2). See Figure 3.

Quick Start—Software Setup

After downloading the software from the URLs listed in the previous <u>Quick Start</u> section, and unzipping and saving the files to a folder, start the EV kit software by double-clicking the file **DS28E05_Evaluation_Program. exe**.



Figure 3. DS9481R-3C7 COM Port

Evaluates: DS28E05

Note: Make sure that the hardware has been connected correctly and follow the steps below:

- In the 1-Wire Adapter group box on the Setup tab (Figure 4), the Adapter Port Type is fixed at USB (COM) with the Adapter Part # of DS9481R-3C7. The Adapter Port is a COM port mapped by the Prolific device. Click on the Open Adapter/Port button or on the Auto-Search button. If successful, the Status field next to the Open Adapter/Port button displays Success.
- The device selection options are displayed in the Device Selection Methods group box in the Setup tab.
- 3) The default setting for the EV kit software is Match-ROM in the ROM Selection Method drop-down list. Also, the Use Search-ROM to find the first available EV kit device is checked by default. Retain these default selections for quick setup.
- 4) Once the adapter/port has been opened, the DS28E05 Device Selection drop-down list is automatically populated with the unique ROM ID of the available DS28E05s. If no device is found on the 1-Wire, the selection is blank. In that case, insert the device and click the Refresh Selection button. A device must be present to go to the Memory tab to exercise the device.
- Once the device has been selected, click on the Memory tab (Figure 5). Select the memory range from the Memory Resource Selection drop-down list.
- Once a memory range has been selected, the available commands appear in the Commands group box below Memory Resource Selection drop-down list. The commands appear as buttons.
- 7) Select a command by clicking on one of the command buttons. The button is highlighted in yellow to indicate which command is selected.
- 8) Once a command is selected, the **Options** group box below the **Commands** buttons is populated with the required options for the command. Select the options and click the **Execute Command** button to execute the selected command with the options provided.
- 9) The output of the selected command is displayed in the Log group box in a scrollable field. The Key describing the output in the log is provided at the bottom of the Log group box. The window can be resized

or maximized to enlarge the Log group box.

- The log can be copied to the clipboard through the File/Copy Log to Clipboard menu item. The log can be cleared through the File/Clear Log menu item.
- 11) The program can be ended through the **File/Exit** menu item.

Detailed Description of Software

The software program's main window (Figure 4) contains three tabs: **Setup**, **Memory**, and **Raw 1-Wire**. The starting tab is **Setup**, which contains the 1-Wire adapter/port and device selection options. The **Memory** tab shown in Figure 5 contains the main demo with four areas from top to bottom: **Memory Resource Selection**, **Commands**, **Options**, and **Log**. The **Raw 1-Wire** tab shown in Figure 4 contains buttons and fields to send and receive raw 1-Wire communication.

The software window contains a menu at the top, as seen in <u>Figure 4</u>. The log can be copied to the clipboard through the **File/Copy Log to Clipboard** menu item. The log can be cleared through the **File/Clear Log** menu item. The **Help** menu displays the version of the software. The **File/Exit** menu exits the EV kit software.

Setup Tab

The **Setup** tab sheet (Figure 4) contains two sections: **1-Wire Adapter** and **Device Selection Methods**.

1-Wire Adapter Group Box

The 1-Wire Adapter group box includes adapter type and port selection. This setup is required before performing operations on a connected device. Only the Adapter Port Type of USB (COM) is supported with Adapter Part # of DS9481R-3C7. Once the Adapter Port Type is selected, click on the Open Adapter/Port button. If the adapter is detected, Success is displayed in the status field to the right of the button. If the adapter is not detected, an error message is displayed. If this happens, fix the problem and click the button again. Optionally, use the Auto-Search button to search through all available COM ports to find the DS9481R-3C7.

The **Auto-Open** checkbox instructs the program to automatically open the selected adapter and port when the program starts. This should be used if the adapter port combination does not change. The **Open Adapter/Port** button does not need to be clicked if the **Auto-Open** was checked when the application started and **Success** is displayed in the status field.

File Help	1		
Setup Memory Raw 1-Win	e		
-1-Wire Adapter			
Adapter Port Type	Adapter Part #	Adapter Port	
USB (COM)	DS9481R-3C7	СОМ6 –	Auto-Search
	Status		
Open Adapter/Port	Success		Auto-Open
Device Selection Methods	¢		
ROM Selection Metho	d		
Match-ROM -		KIP-ROM only on netwo	orks with only 1 device!
	11.1.1.1.1.0.000 0	the field only official	into martority r dorido.
Use 'Resume' con	nmand when possible	e	
l⊽ Use Search-ROM	to find first available	e EVKit device (Recom	mended)
I Use Search-ROM DS28E05 Device Sele			1
	ction	e EVKit device (Recom Refresh Sel	1
DS28E05 Device Sele	ction) 3E 📃 💌	Refresh Se	1
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Figure 4. Evaluation Software Main Window—Setup Tab

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Device Selection Methods Group Box

The **Device Selection Methods** group box in the **Setup** tab instructs the **Memory** tab operations on how to select the device using the ROM (read-only memory) level 1-Wire commands. The 1-Wire protocol uses the unique 64-bit registration number (ROMID) as the network address of the device.

The ROM Selection Method drop-down list has two options: Match-ROM and Skip-ROM. Match-ROM uses the ROM ID to select the device with the Match-ROM command. Because this operation uses the ROM ID, it needs to know this number in advance. Consequently, when selecting Match-ROM, the Use Search-ROM to find first available EVKit device (Recommended) is automatically checked. This operation finds the available DS28E05 on the network and populates the drop-down list. The first device found is selected by default. If the contents of the 1-Wire network are changed, the Refresh Selection button can be clicked to refresh the list. Note that the message below the device list indicates if there are other non-DS28E05 devices present on the network found during the search. The Skip-ROM option calls on the Skip-ROM command to select any device present. Only use this option if there is only one device present on the 1-Wire. If multiple devices are present, they are all selected at once, potentially causing collisions. A warning message to that effect is displayed if potential conflicts are detected when changing to the Memory tab.

The **Use 'Resume' command when possible** checkbox instructs the **Memory** tab operations to use the Resume command. The Resume command is a shortcut command

to select the same device previously selected with the ROM-level command.

Overdrive speed is used at all times because the DS28E05 are overdrive-only devices.

Memory Tab

The Memory tab (<u>Figure 5</u>) contains five sections: Memory Resource Selection, Commands, Options, Log, and Key

Memory Resource Selection

The contents of this drop-down list mirror the memory resources described in the DS28E05 IC data sheet. Selecting a memory resource automatically displays the commands available to operate on this memory in the **Commands** group box. Most ranges at a minimum provide the Read command.

Commands/Options

Once a memory range has been selected, one or more command buttons appear in the **Commands** group box depending on the properties of the memory range. Clicking on one of the command buttons highlights it in yellow. Clicking on the command button also populates the **Options** group box with fields and/or components representing the options offered for the command. The options offered change depending on the command selected and the selected memory range's properties. Once the options have been set, the command button performed by clicking on the **Execute Command** button in the **Options** group box.

The following sections list all possible commands and the corresponding options.

e Help	
Setup Memory Raw 1-Wire Memory Resource Selection	
10h to 1Fh R/(W) Data page 1 Access depends on protection control for Page 1 Commands Read Write Memory Write Memory Options Starting Address 10h Read Length 16	Execute Command
Log // 00 01 02 03 04 05 06 07 // 08 09 0A 0B 0C 0D 0E 0F	
// 00 01 02 03 04 05 06 07	1000

Figure 5. Evaluation Software Main Window—Memory Tab

Evaluates: DS28E05

Read Memory

The **Read Memory** command (Figure 6) is applicable to all memory ranges. Possible options are the **Starting Address** and **Read Length** in the drop-down lists. The **Starting Address** list is populated with all possible addresses in the selected memory range. The **Read Length** is populated from 1 to the maximum size of the memory range.

Write Memory

The **Write Memory** command is applicable to those memory locations that are not read-only. For the DS28E05, this is the address range of 0000h to 0073h. There are two sets of options for the **Write Memory** command. The first set of options pertains to a general-purpose memory write, which writes a 2-byte segment on a data

page (Figure 7). The page written to must not have Write **Protect** enabled; otherwise, the write fails. The **New Data** must be 2 bytes of hex digits.

The second set of **Write Memory** options pertains to the memory range of 0070h to 0073h. When these memory locations are written, they turn on special options associated with each page of the DS28E05's memory on a page-by-page basis. The **Write Protect** option (Figure 8) uses the standard, general-purpose Write Memory command but formats that data to set the desired protection. The following options are provided as radio buttons: **Write Protect**, **EPROM Emulation Mode**, and **Open**. **Open** selects no protection and is the default state. Once protection has been set on a page, it cannot be changed.

Options Starting Address 10h 💌	Read Length 16 💌	Execute Command

Figure 6. Read Memory Command Options

Options Segment 0 💌	New Data 55 66	Execute Command	



-Options - Field	Page 0	 Write Protect EPROM Emulation Mode Open 	Execute Command	

Figure 8. Write Memory Command Options for Write Protect and EPROM Emulation Mode

Log

The **Log** group box consists of a scrollable output field and a **Key** to explain the output. The output field displays all communication with the DS28E05, along with comments to describe the operations. The log contents can be copied to the system clipboard for pasting into a document or email message through the **File/Copy Log to Clipboard** menu item. The **Log** can also be cleared with the **File/Clear Log** menu item. The program window can be resized to expand the **Log** group box for easier viewing. The text in the **Log** group box is also colorcoded. This color coding is preserved when copying to another program. See <u>Table 2</u> for a detailed explanation of the key to the log contents.

Table 2. Log Key

Raw 1-Wire Tab

The **Raw 1-Wire** tab sheet (Figure 9) provides the facilities to send and receive any raw 1-Wire communication. This can be used to recreate some of the operations seen on the **Memory** tab or to experiment with other operations. It can also be used on 1-Wire devices other than the DS28E05 since it provides direct access to the 1-Wire network. All the operations are recorded in the **Log** group box on the **Memory** tab, as well as on the bottom of the **Raw 1-Wire** tab for later examination and copying. The operations available on the **Raw 1-Wire** tab are divided into two group boxes: **Low Level** and **ROM Level**.

KEY	DESCRIPTION
RP	1-Wire reset and presence pulse response. Color-coded blue for the reset pulse and red for the response.
RN	1-Wire reset and no-presence pulse response. Color-coded blue for the reset pulse and red for the response.
<sp_on>/<sp_off></sp_off></sp_on>	1-Wire strong pullup on/1-Wire strong pullup off. Strong pullup is used to provide additional current to the device during operations such as EEPROM write.
HH – write to device	1-Wire write from master to device represented by a pair of hex digits showing the byte that was transmitted. Valid for a line that does not begin with a comment symbol "//". Color-coded blue.
[HH] – read to device	1-Wire read from device represented by a pair of hex digits bounded by brackets "[]" showing the byte that was received. Valid for a line that does not begin with a comment symbol "//". Color-coded red.
В	1-Wire write bit from master to device, represented by a single binary digit (1/0). Valid for a line that does not begin with a comment symbol "//". Color-coded blue.
[B]	1-Wire read bit from master to device, represented by a single binary digit (1/0) bounded by brackets "[]" showing the bit that was received. Valid for a line that does not begin with a comment symbol "//". Color-coded red.
<<>>	Indicates an error with the error message between the "<< >>". Color-coded purple.
<std>/<ovr></ovr></std>	Indicates 1-Wire line speed: <std> for standard and <ovr> for overdrive. This symbol is logged before every 1-Wire reset pulse and when the speed changes as in an Overdrive Match command. Color-coded blue.</ovr></std>
// line comment	Indicates a line that is not 1-Wire communication, but is instead commentary on the operation performed. Color-coded black.

le Help Setup Memory Raw 1-Wire Low Level 1-Wire Reset Speed - Overdrive 1-Wire Reset Speed - Overdrive Image: Comparison of Bytes to Read Read Bit Write Bytes 8 Bytes to Read Read Bit Write Bytes 33 Image: Comparison of Bytes to Read Write 0 Bit Power Start Strong-Pullup after next Byte Start Strong-Pullup after next Bit Set Power Normal Power: TV VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM) 0D 35 00 00 00 00 00 3E Reset - Search-ROM (first) Reset - Search-ROM (next) Search F0]
Low Level 1-Wire Reset Speed - Overdrive Read Bytes 8 Number of Bytes to Read Read Bit Write Bytes 33 Write Bytes 33 Write 1 Bit Write 0 Bit Power Start Strong-Pullup after next Bit Start Strong-Pullup after Delivery: 7V VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level ROM Level ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM) 0D 35 00 00 00 00 03 E]
1-Wire Reset Speed - Overdrive Read Bytes 8 Number of Bytes to Read Read Bit Write Bytes 33 Write 1 Bit Write 0 Bit Power Delivery: Start Strong-Pullup after next Byte Start Strong-Pullup after next Bit Start Strong-Pullup after Normal 7V VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level (auto filled with Search-ROM and Read-ROM) 0D 35 00 00 00 00 00 3E	
Read Bytes 8 Number of Bytes to Read Read Bit Write Bytes 33 Write 1 Bit Write 0 Bit Power Delivery: Start Strong-Pullup after next Byte Start Strong-Pullup after next Bit Set Power Normal 7V VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM) 0D 35 00 00 00 00 00 3E]
Read Bytes 8 Bytes to Read Read Bit Write Bytes 33]
Write 1 Bit Write 0 Bit Power Delivery: Start Strong-Pullup after next Byte Start Strong-Pullup after next Bit Set Power Normal 7V VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level (auto filled with Search-ROM and Read-ROM) 0D 35 00 00 00 00 00 3E]
Power Delivery: Start Strong-Pullup after next Byte Start Strong-Pullup after next Bit Start Strong-Pullup after next Bit Set Power Normal 7V VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM) 0D 35 00 00 00 00 00 3E	
Normal Delivery: next Byte 7V VCC Pulse (100ms) 12V 1-Wire Pulse Power Down 1-Wire ROM Level ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM) OD 35 00 00 00 00 00 3E	1
ROM Level ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM) OD 35 00 00 00 00 3E	
ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM)	
Reset - Match ROM Reset - OD Match ROM Reset - Read ROM	
// ROM BYTE #4 is 00h	
[0] [1] 0 [0] [1] 0 [0] [1] 0 [0] [1] 0 [0] [1] 0 [0] [1] 0 [0	
// ROM BYTE #5 is 00h [0] [1] 0 [0] [1] 0 [0] [1] 0 [0] [1] 0 [0] [1] 0 [0] [1] 0 [0]	
// ROM BYTE #6 is 00h	
[0] [1] 0 [1] [0] 1 [1] [0] 1 [1] [0] 1 [1] [0] 1 [1] [0] 1	
<pre>// CRC8 is correct, last discrepancy at bit 0, Last device flag</pre>	
// Device found: 0D 35 00 00 00 00 00 3E	
// Device type: DS28E05	
// Read ROM, FORMAT: 33h (command), read Registration Number (
<pre><ovr> RP 33 [0D] [35] [00] [00] [00] [00] [00] [3E]</ovr></pre>	1.1
// CRC8 in ROM verified	×
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Figure 9. The DS28E05 EV Kit Software: Main Window—Raw 1-Wire Tab

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Low Level Group Box

The Low Level group box provides the low-level 1-Wire primitives that can be used to construct any 1-Wire communication sequence. The 1-Wire Reset button issues a reset low presence at the speed specified in the drop-down list to the right of the 1-Wire Reset button. The Read Bytes button reads the number of bytes specified in the input field to the right of the button. The Write Bytes button writes the bytes displayed in the input field to the right of the button. The Write Bytes input field is also a drop-down list that remembers all previous writebyte sequences. The Write 1 Bit and Write 0 Bit buttons write the indicated bit to the 1-Wire network.

The Start Strong-Pullup after next Byte button starts the 1-Wire strong pullup power delivery after the next communication byte (either read or write). The Start Strong-Pullup after next Bit button starts the 1-Wire strong pullup power delivery after the next communication bit (either read or write). The Set Power Normal button disables the 1-Wire strong pullup power delivery. The Power Down 1-Wire button powers down the 1-Wire. Any 1-Wire operation returns the 1-Wire to a normal state.

Note: The following items in the **Low Level** group box of the **Raw 1-Wire** tab can be used for other 1-Wire products, but are not used for evaluating the DS28E05:

- The **7V VCC Pulse (100ms)** button enables a 7V pulse on the PULSE pin of the DS9481R-3C7. This is not necessary to evaluate the DS28E05.
- The 12V 1-Wire Pulse button enables a 512µs pulse on the 1-Wire to support EPROM programming. A warning message displays before the operation completes.

Warning: Do not use this feature when evaluating DS28E05, as it could result in damage to the DS28E05.

ROM Level Group Box

The **ROM Level** group box has 1-Wire macros that implement the 1-Wire ROM commands. These commands use the 64-bit unique ROM ID that each 1-Wire device is embedded with for device discovery and selection. The **ROM to use with ROM commands (auto filled with Search-ROM and Read-ROM)** input field is used with the ROM macros to select a device. This field can be manually edited to input the ROM ID of the device selected or the field is auto filled by clicking on the following buttons: **Reset - Search-ROM (first), Reset - Search-ROM (next)**, and **Reset - Read ROM**. The **Reset - Search-ROM (first)** button performs the Search ROM command sequence to discover the first device on the network. The ROM ID and the binary search sequence, not physical location, determine the order of the devices discovered. Refer to Application Note 187: *1-Wire Search Algorithm* for details.

The **Reset - Search-ROM (next)** button continues where the last binary search left off and finds the next device. Both of these search buttons use the command entered in the **Search Command** input field. The default command is F0 (hex) Search ROM. Alternatively, this can be filled in with the Conditional Search ROM command EC (hex). However, this command is not valid for the DS28E05.

The **Reset - Skip ROM** button sends a 1-Wire reset followed by the CC (hex) Skip ROM command. This selects all devices on the 1-Wire. It should only be used if there is only one DS28E05 on the network.

The **Reset - OD Skip ROM** button sends a 1-Wire reset followed by the Overdrive-Skip ROM command 3C (hex) and changes the 1-Wire speed to overdrive.

The **Reset - Resume** button sends a 1-Wire reset followed by the Resume command A5 (hex).

The **Reset - Match ROM** button sends a 1-Wire reset followed first by the Match ROM command 55 (hex) and then by the 8 bytes of the ROM ID in the ROM input field at the top of the **ROM Level** group box. If there is no ROM ID in the input field, a warning displays.

The **Reset - OD Match ROM** button sends a 1-Wire reset followed by the Overdrive-Match ROM command 69 (hex), changes the 1-Wire speed to overdrive, and then sends the 8 bytes of the ROM ID in the ROM input field at the top of the **ROM Level** group box.

The **Reset - Read ROM** button sends a 1-Wire reset followed by the Read ROM command 33 (hex) and then reads the 64-bit ROM ID of the device. The CRC-8 within the number is checked to verify a valid ROM ID. A warning is logged if the CRC-8 is not valid. The ROM ID is also loaded into the ROM input field to be used by the other ROM macro buttons.

Detailed Description of Hardware

Refer to the DS9481R-3C7 and DS9120P IC data sheets for detailed hardware descriptions.

Evaluates: DS28E05

Ordering Information

PART	TYPE	
DS28E05EVKIT#	EV Kit	

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

Evaluates: DS28E05

Revision History

REVISION	REVISION	DESCRIPTION	PAGES
NUMBER	DATE		CHANGED
0	1/15	Initial release	—

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim Integrated's website at www.maximintegrated.com.

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