MPS I2C Interface System User Guide

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INTRODUCTION

What is the MPS I2C GUI

The MPS I2C Interface system is a system that helps customers easily use MPS parts with an I2C function. The system includes an EVB board, an I2CBUS KIT between the PC and IC, and a computer with Windows 7 or

higher system (see Figure 1 and Figure 2).

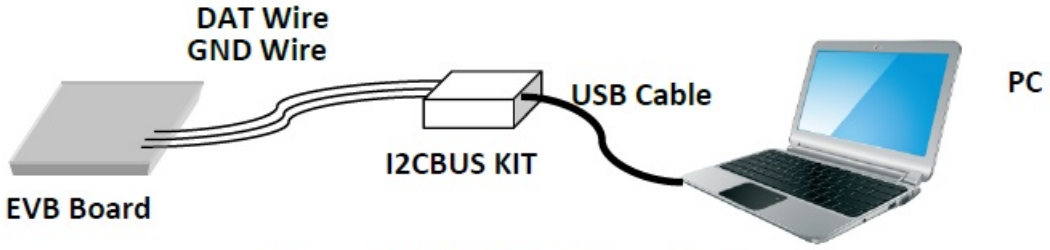


Figure 1: MPS I²C Interface System

Figure 2: MPS I2CBUS KIT (Top and Bottom)

System Requirements

Software	Operating System	.Net Framework Version
Windows 7 or later	.NET Framework 4.0 or later	

NOTE: .Net Framework can be downloaded from Microsoft.com. The .net Framework4.0 can be downloaded here: **https://www.microsoft.com/en-US/download/details.aspx?id=17718**

INSTALLATION

The MPS IIC GUI.rar can be downloaded from the MPS website. Extract it into a directory.

Installing the MPS IIC GUI
Double click the .exe file and follow the set-up guide (see Figure 3). For this example, we'll be using the MP5515.

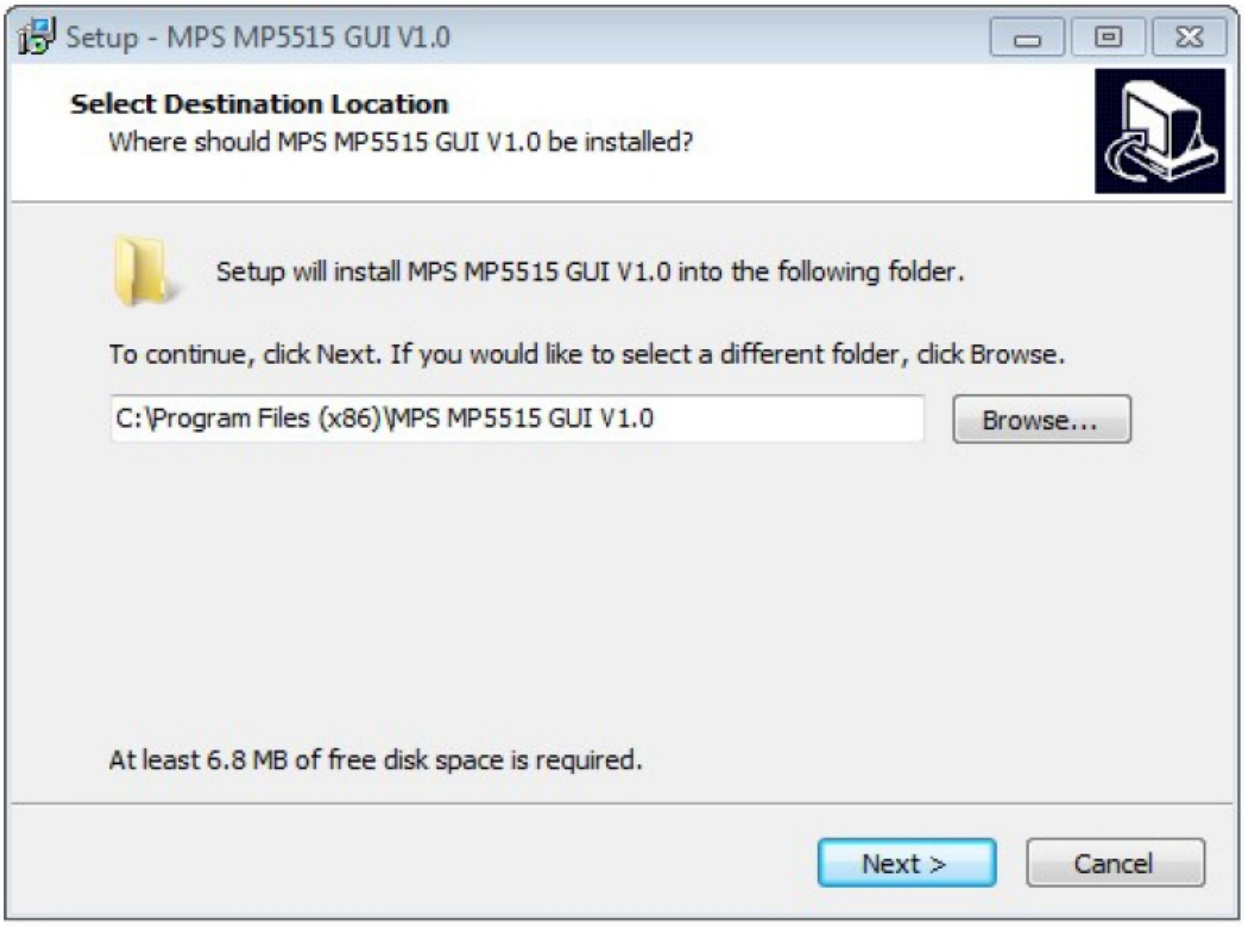
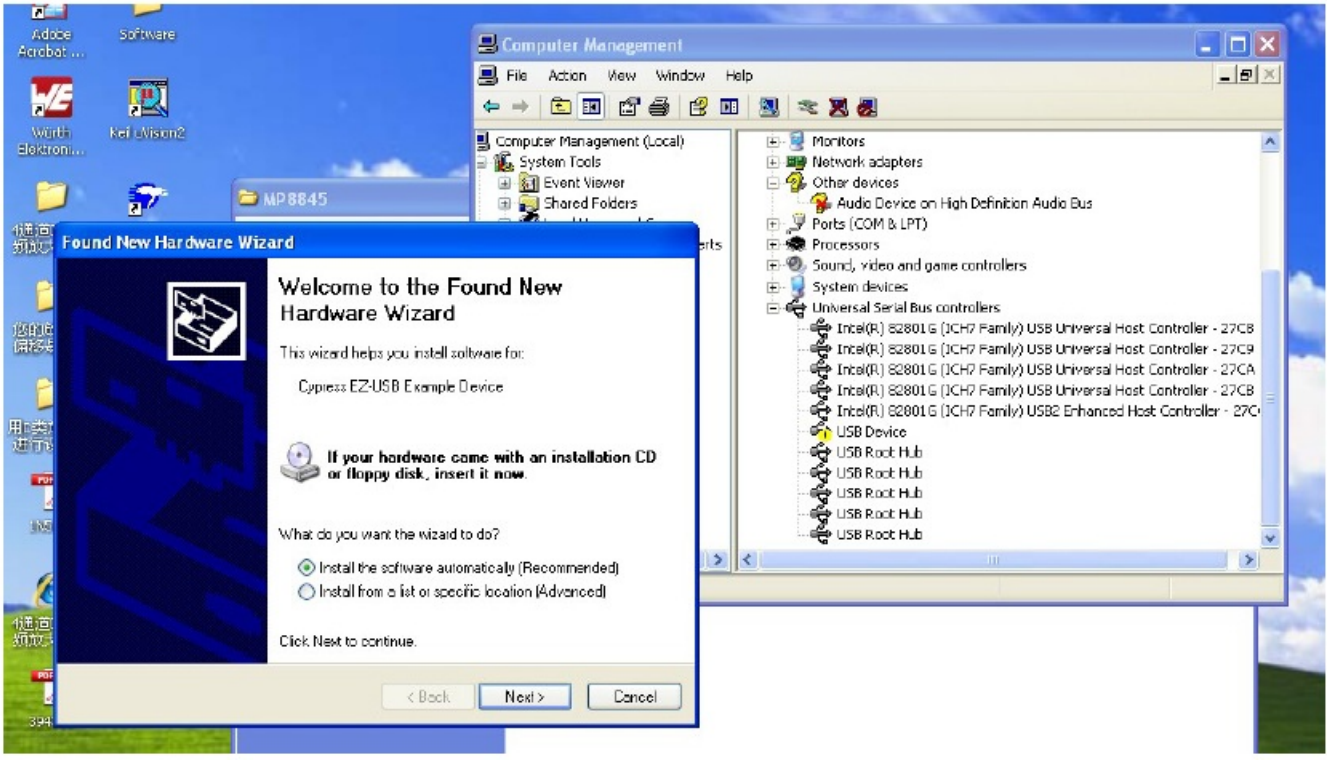


Figure 3: MPS IIC GUI Set-Up Guide

Installing the USB Driver

The USB-to-I2C driver should be installed before using the system. Follow the steps below to install this driver.

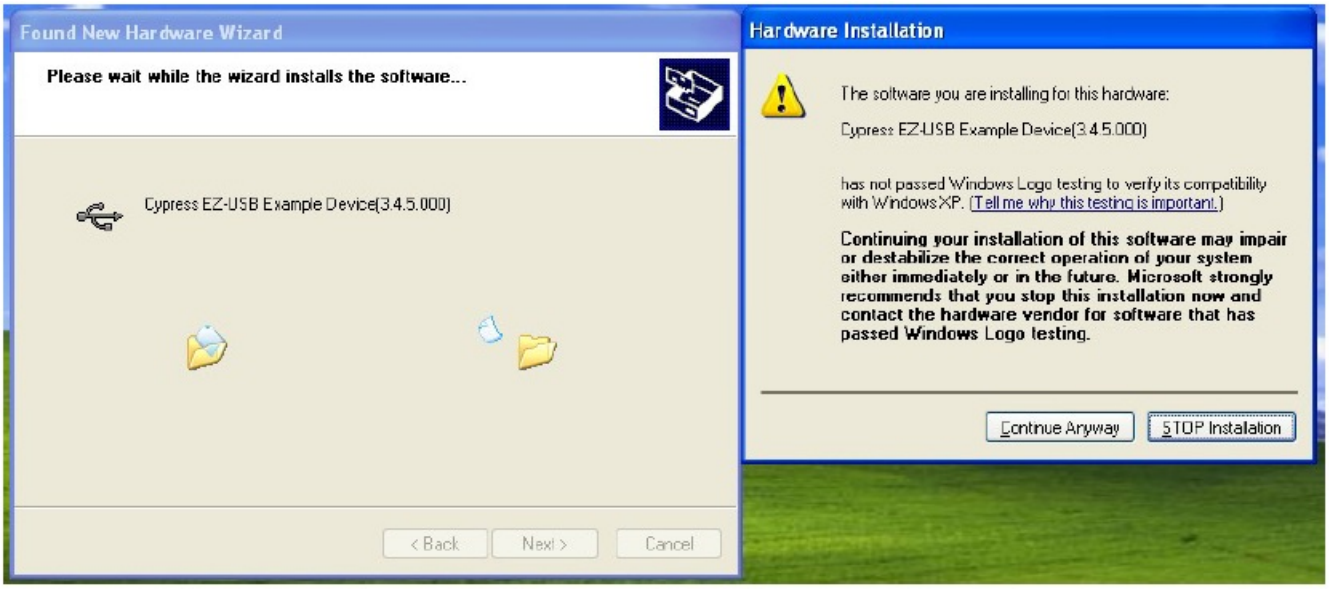
1. Connect the MPS I2CUSB KIT to your PC through the black USB cable. Windows will find the new hardware and open a dialog box to instruct you on installing the driver.



2. Select “Install from a list or specific location (Advanced)” and press “next”.

3. Bxr8o6w sDer ivtoe rt”h eo rl otchaet io“xn6 4th aDtr iyvoeur” efxotlrdaecrt,e dd etpheen “d.rianrg” ofilne yboeufor rsey asntedm c htyopoes,e aenitdh eprr ethses “next”.
   Contact your system administrator is you need to know your PC’s system type.

4. Press “Continue Anyway” to install the driver. Wait for the installation to finish and remove the USB cable from PC.
   Sometimes the PC cannot recognize the USB device and shows an “unknown USB device” warning. Try connecting the device to a different USB port. If that does not work, please contact your administrator.



USAGE

Hardware Connection

Use the colored wires to connect the EVB to the MPS I2CBUS KIT (see Figure 4). Please refer to the specific part datasheet for EVB pin definitions.

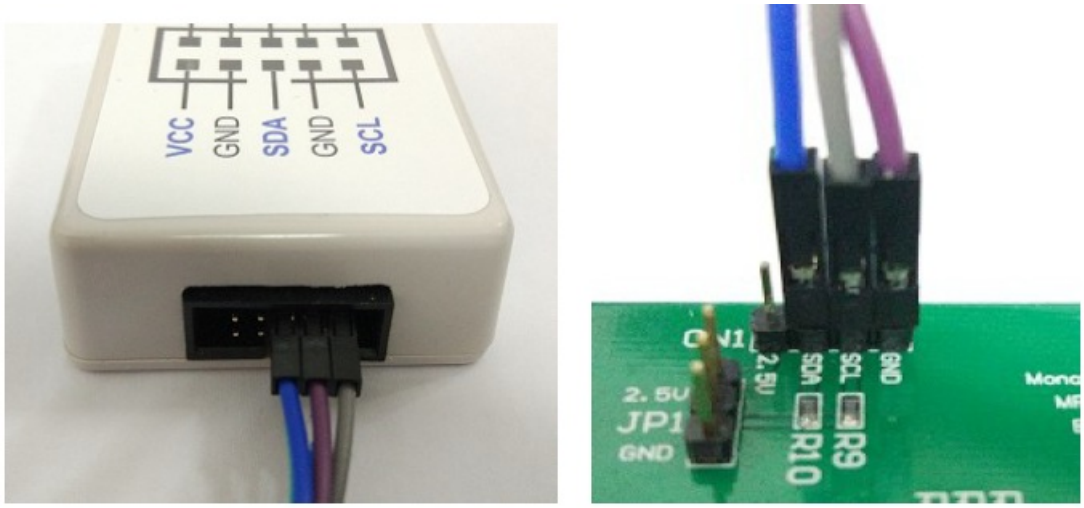


Figure 4: EVB to MPS I2CBUS KIT Wire Connection

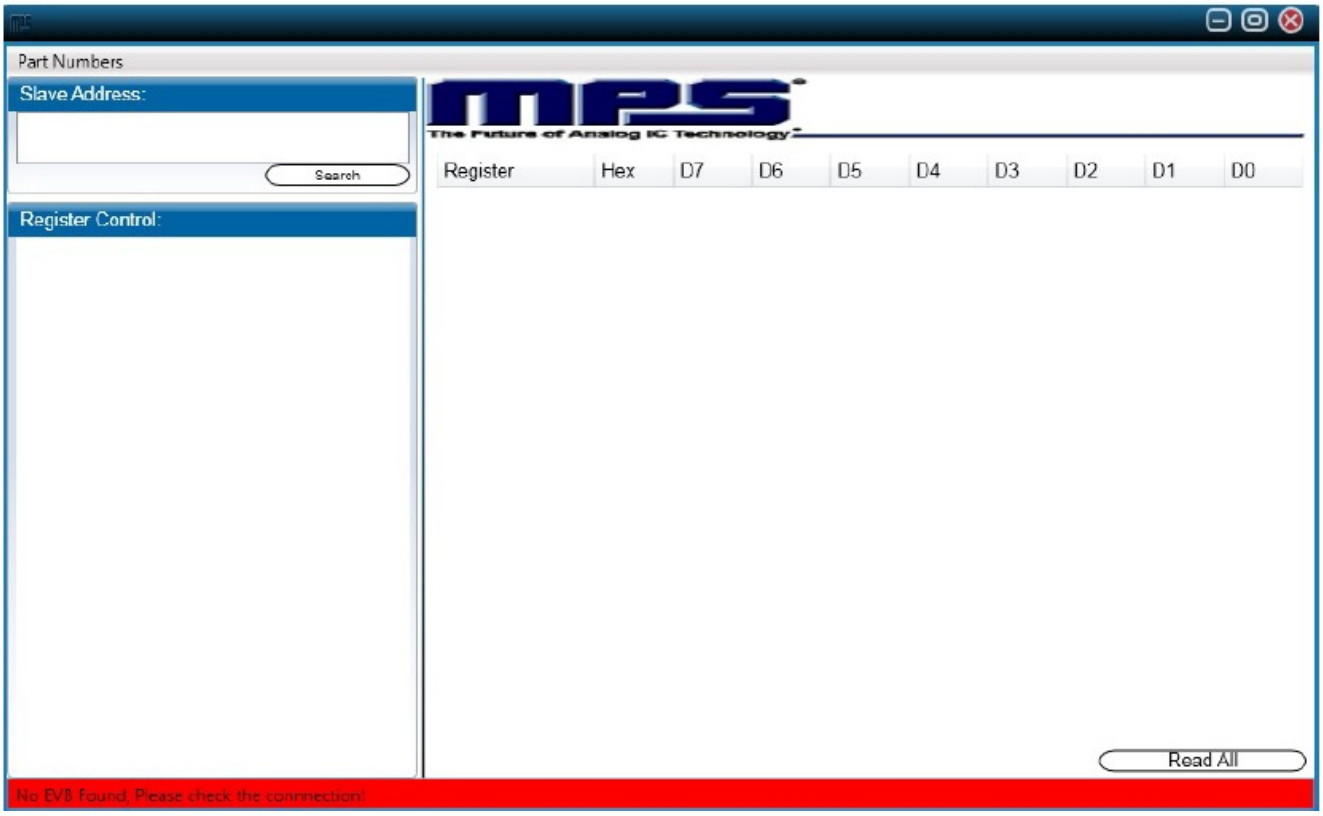
Refer to the EVB datasheet to start up the EVB and connect it to the PC via the IICBUS KIT.

Using the GUI

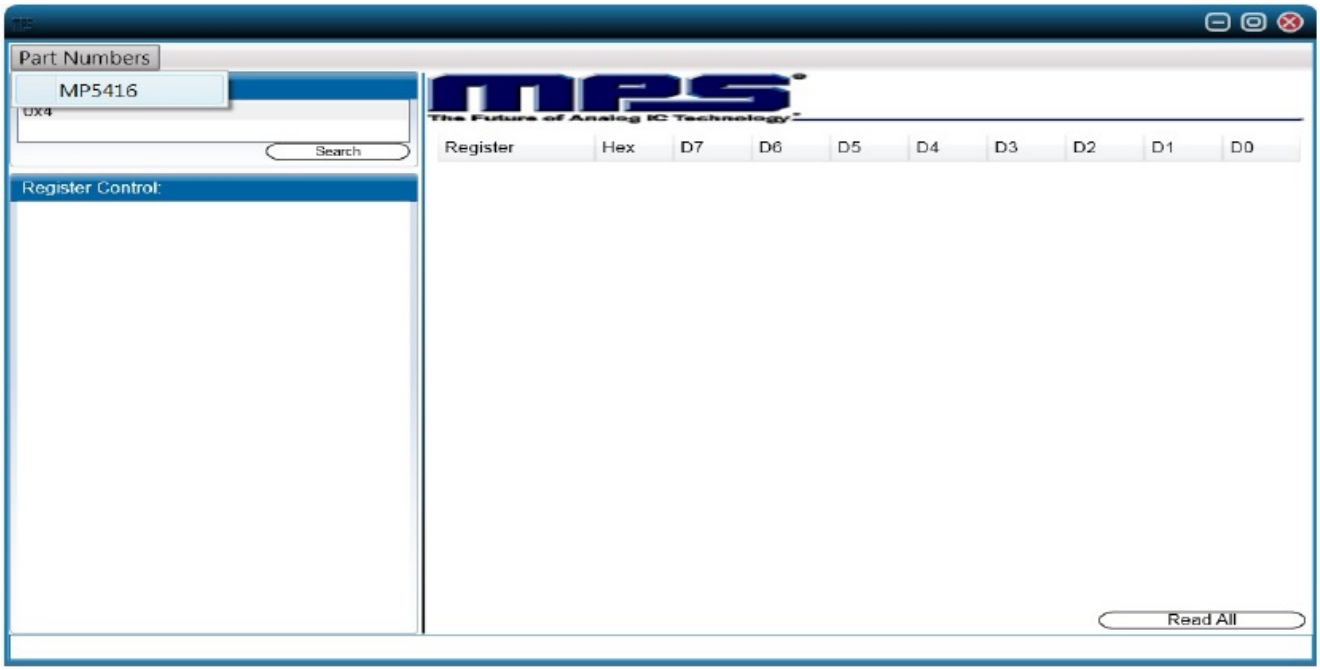
After installing the software, start it up from by selecting the desktop shortcut icon or from the Start menu.

Follow the steps below to use the GUI software.

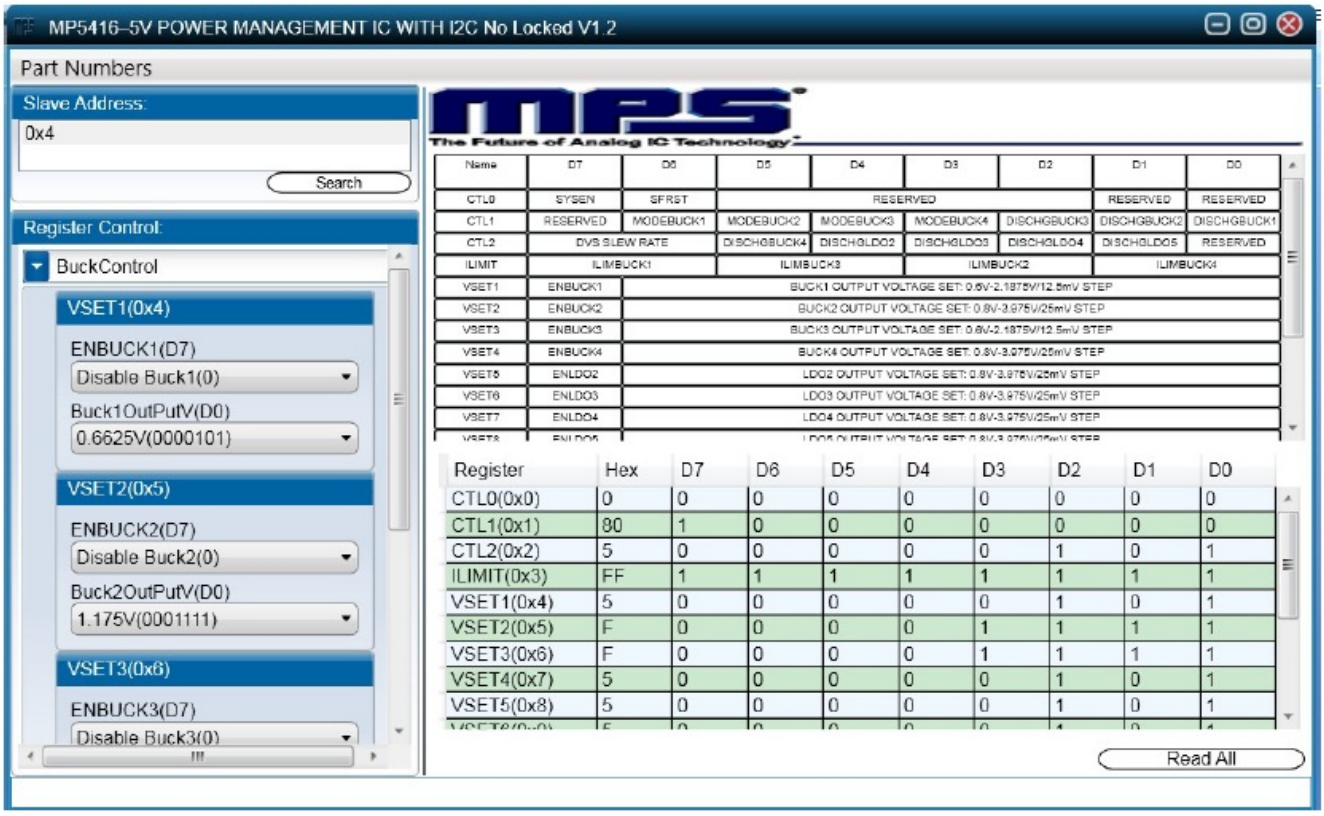
1. Start the software. It will check the EVB connection automatically. If the connection is not successful, a warning will appear at the bottom. Otherwise, the address will be listed in the “Slave Address.”



2. Select the part number, then, the control information will be seen in the “Register Control.”



3. Find the item you want to change, select the value, and the changed information of the item will appear on the right side. Click the “Read All’ button to update all the item’s values.



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References

- Microsoft – Cloud, Computers, Apps & Gaming
- Download Microsoft .NET Framework 4 (Standalone Installer) from Official Microsoft Download Center