

Document	AN016
Issue	03
Description	Installing MU-2 USB driver on Windows 8
Author	John Bell                      Application Engineer

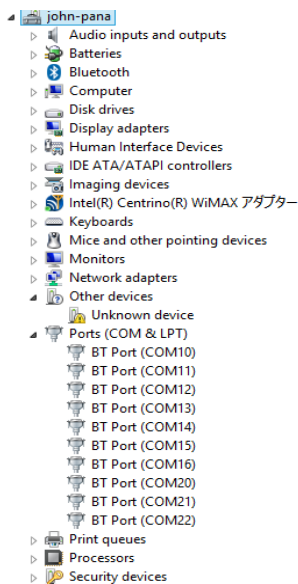
### Contents:

1. Why won't Windows 8 64 bit accept my driver?
2. Explanation of Vendor ID.
3. Disabling the driver signature enforcement in Windows 8.

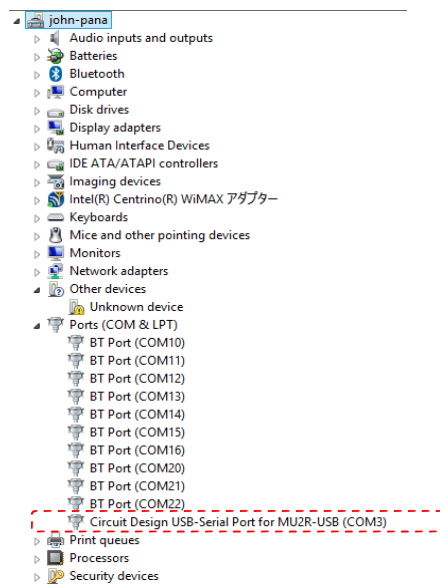
### 1. Why won't Windows 8 64 bit accept my driver?

Those who are using 64 bit versions of Windows 8 will find that when installing the driver for MU-2-R, the driver does not successfully install and no COM number shows in the device manager.

Device manager before driver installed



Device manager after driver installed



The device manager shows,

“Circuit Design USB-Serial Port for MU2R-USB (COM X)”

showing that the driver has installed successfully. Those using Windows 8 64bit will find that it cannot assign a COM port to their MU-2-R and no indication will show.

### 2. Explanation of Vendor ID

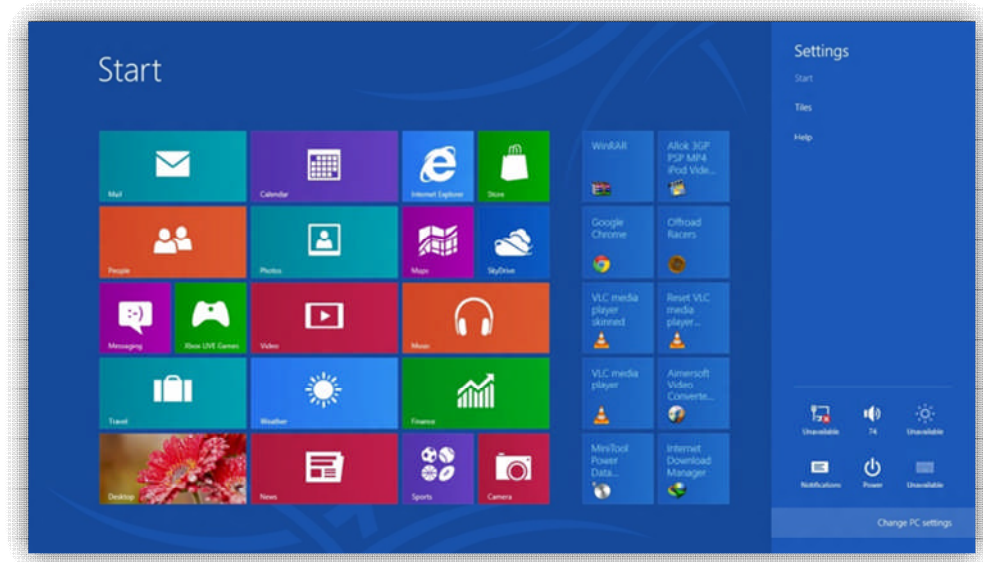
Vendor IDs or VID are 16-bit codes written in the ROM contained in every device which uses a USB connection. Windows will read the VID from the device and compare it to the VID registered for that device. If Windows finds that the VID it reads is different from the VID registered for that device, it will see this as a potential security risk (eg. someone has changed the VID in the device) and not allow installation of the driver. This is an extra security measure found on all Windows 8 64-bit computers.

Circuit Design has its own VID and writes it to the FTDI USB chip on all MU-2-UIK boards, overwriting the FTDI manufacturer's default VID. This will cause Windows to halt installation of the driver.

### 3. Disabling the driver signature enforcement in Windows 8.

In order to disable this security feature, the driver signature enforcement has to be disabled in order to successfully install the driver. This is achieved on boot up as shown below:

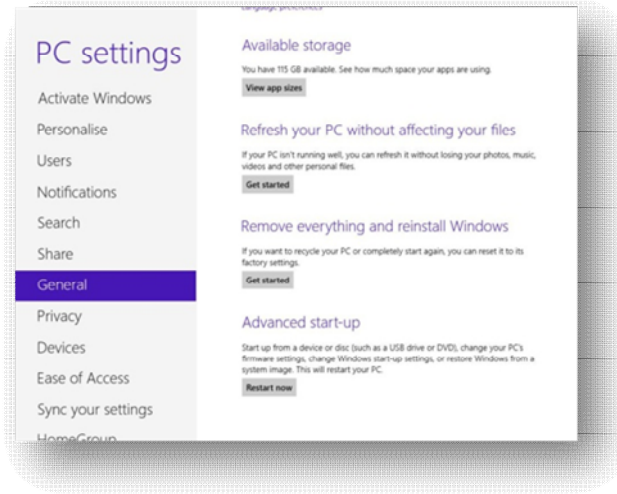
#### Step 1: Go to PC settings



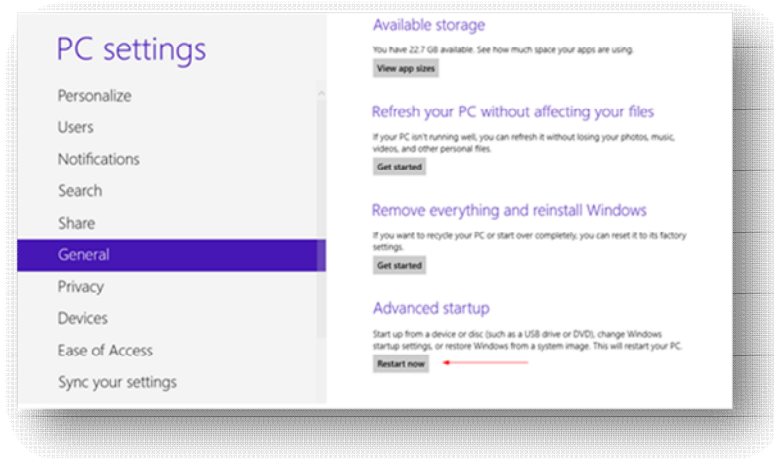
#### Step 2: Go to Change PC Settings



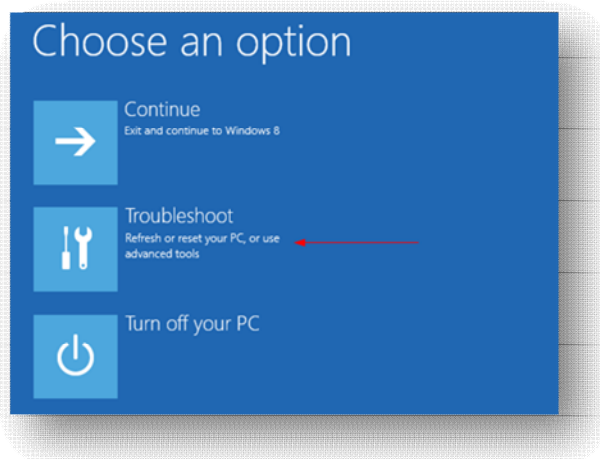
**Step 3: Select “General”**

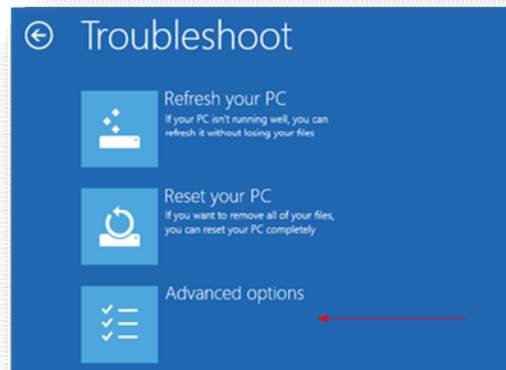
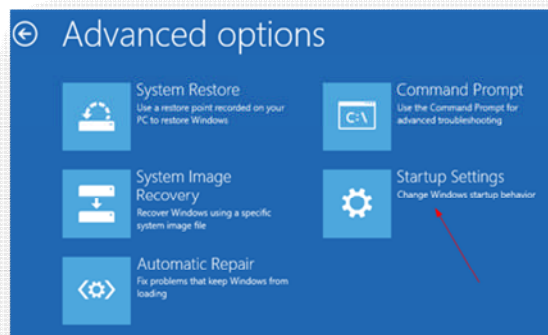
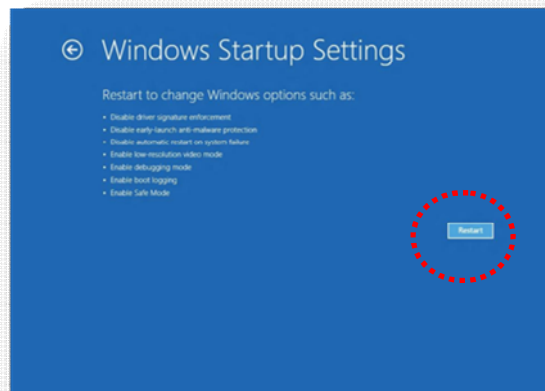


**Step 4: Go to Advanced startup and click the “Restart Now”**

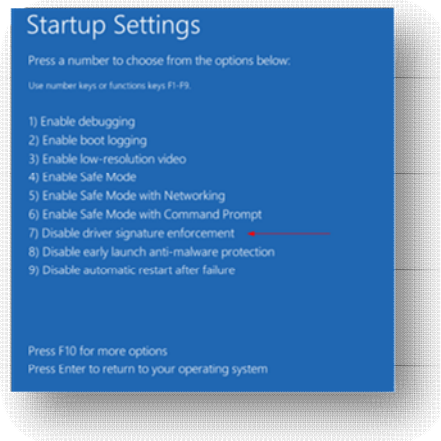


**Step 5: At option screen, choose “Troubleshoot”**



**Step 6: Choose “Advanced options”****Step 7: Select “Startup Setting”****Step 8: At the confirmation screen, press restart.**

**Step 9: Select “Disable driver signature enforcement”.** Following this, you will be able to install the driver normally. Windows will warn you of an unsigned driver, but installation will proceed. Following successful installation, Device Manager will show the driver correctly installed as shown in section 1.



**Step 10: Restarting the PC will re-activate the Windows 8 Driver Enforcement on next login.**

## Revision History

Issue	Date	Comment
01	2014/01/22	Start of document
02	2014/04/14	Device Manager screenshots replaced with English version
03	2014/05/14	“USB driver” text added on Line 4

**Circuit Design, Inc. all rights reserved.**

**No part of this document may be copied or distributed in part or in whole without the prior written consent of Circuit Design, Inc.**