

81250A-03A

S E R V I C E N O T E

Supersedes:
81250A-03

81250A - ParBERT

Serial Numbers: **ALL**

PC Link Configuration:

Making the Agilent E8491A/B IEEE-1394 Firewire VXI plugin work on Windows 7

Parts Required: None

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:	
INFORMATION ONLY	
AUTHOR: HK	PRODUCT LINE: 24
ADDITIONAL INFORMATION: How to fix a driver issue regarding Windows 7 and IEEE-1394 Firewire.	

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Situation:

In Windows 7, Microsoft introduced a new IEEE 1394 (FireWire) bus driver. This new bus driver behaves differently from the one that was included in previous Windows releases (e.g. WinXP). This change in behavior makes the new bus driver incompatible with the Agilent E8491A/B VXI FireWire Controller.

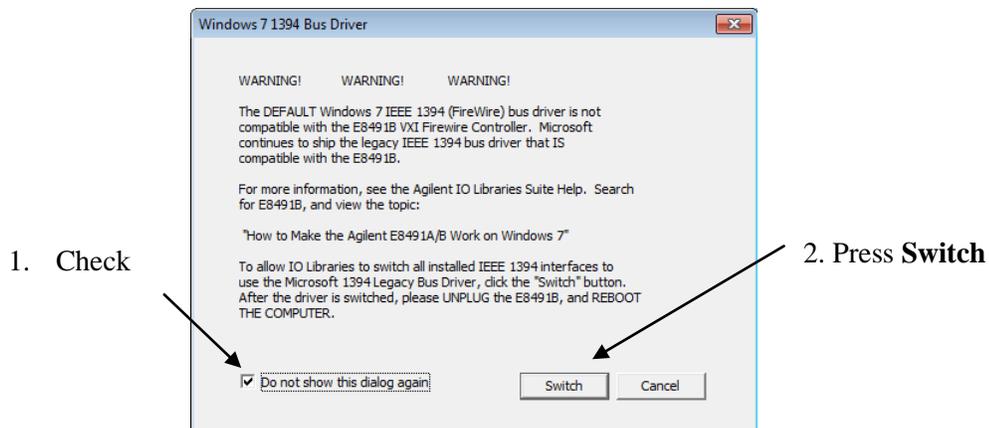
Solution:

To deal with this situation, Agilent IO Libraries Suite (Version 15.5.13009.1 or version 16.0.14518.0) gives you the option to replace the new Windows default IEEE 1394 bus driver with the older Windows Legacy IEEE 1394 bus driver when you connect an E8491A/B to your PC. If you accept this change, all IEEE 1394 cards on your system will be assigned the Legacy IEEE 1394 bus driver, and you will be able to use the E8491A/B (after rebooting your PC and reconnecting the instrument).

1. **Automatic Driver Change** (triggered by the Agilent Connection Expert)

The Agilent IO Libraries Suite will normally detect this situation and offer to replace the FireWire driver with a compatible version automatically.

When you try to launch the Agilent Connection Expert you will get this message on your screen:

**IMPORTANT:**

When using an **English Version** of Windows 7, you can simply click on “Switch” (2) and restart your machine and everything will be working then.

In case you have a **Non-English Version** of Windows 7, The automatic process will not work for you and you must do some extra steps in order to replace the IEEE-1394 Firewire driver manually.

However, you should pick the checkbox “Do not show this dialog again” (1) and finally click on switch “Switch” (2) otherwise you will get this message again and again, even if you have replaced the driver already.

In case of the **Non-English Version** of Windows 7, please continue with the procedure below that describes the manual driver change

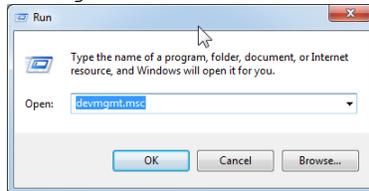
2. Manual Driver Change

The Agilent IO Libraries Suite will normally detect this situation and offer to replace the FireWire driver with a compatible version automatically. **However**, there are some PC systems on which this automatic driver selection and update does not work and you need to manually update the driver.

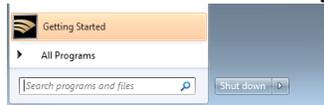
To Change Your IEEE 1394 Bus Driver on Windows 7:

1. On Windows 7, click the **Start** button, then select **Run...**
2. Type the following command:

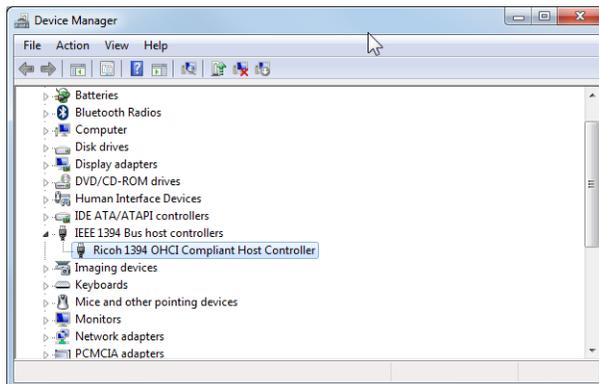
- `devmgmt.msc`



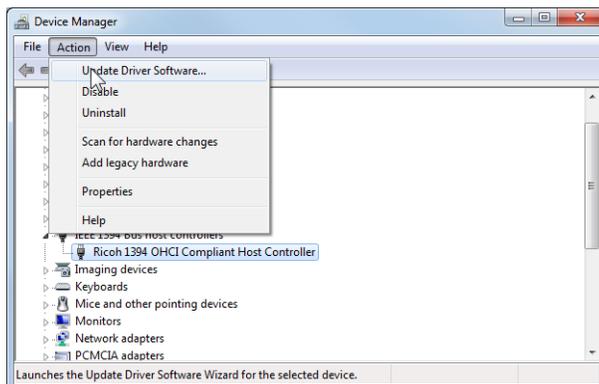
If **Run ...** is not available on your PC then use the Search field.



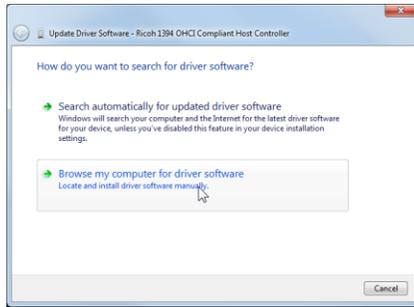
- Click **OK**, this will start the Device Manager
3. Find and expand the entry for **IEEE 1394 Bus host controllers**



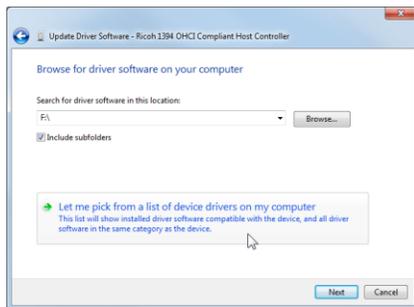
4. Select the card that you want to change drivers.
Click **Action** on the main menu of the Device Manager, and then click **Update Driver Software...**



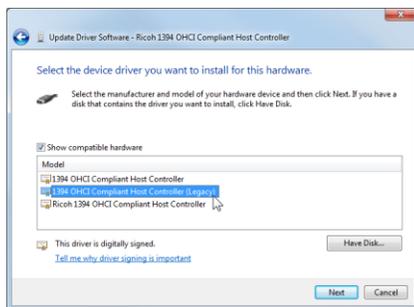
- Choose the option to **Browse my computer for driver software**.



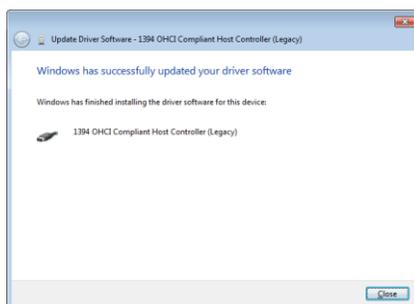
- Choose the option to **Let me pick from a list of device drivers on my computer**.



- Select the Legacy bus driver that works with the E8491A/B:
1394 OHCI Compliant Host Controller (Legacy).
Please note that in other languages this text may differ, e.g. in German:
"OHCI-konformer 1396-Hostcontroller (alt)". Finally click on "Next" (2).



Press **Next**



Press **Close**.

- If you have chosen to use the Legacy bus driver, disconnect the E8491A/B from your PC, reboot your PC, then reconnect the E8491A/B.