# 81250A-03 <u>S E R V I C E N O T E</u>

Supersedes: NONE

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

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NONE

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
INFORMAT	ION 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.

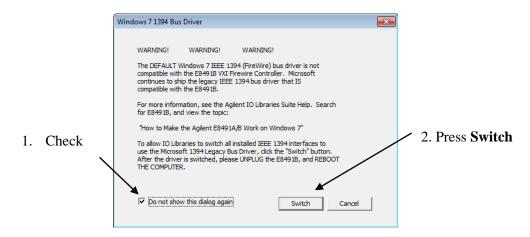
#### Solution:

To deal with this situation, Agilent IO Libraries Suite (Version 15.5.13009.1) 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 procesure below that describes the manual driver change

#### 2. Manual Driver Change

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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		
🖅 Run		
Open:	Type the name of a program, foilder, document, or Internet resource, and Windows will open it for you.	
	OK Cancel Browse	

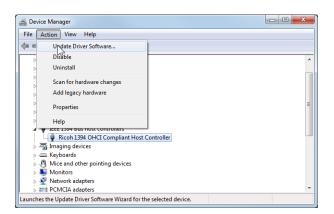
If Run ... is not available on your PC then use the Search field.



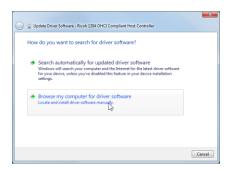
- Click OK, this will start the Device Manager
- 3. Find and expand the entry for IEEE 1394 Bus host controllers

🚔 Device Manager	• <b>X</b>
File Action View Help	
🛛 🗃 Batteries	*
🔊 🚯 Bluetooth Radios	
⊳	
🔈 👝 Disk drives	
🔈 📲 Display adapters	
DVD/CD-ROM drives	=
> 導調 Human Interface Devices	
IDE ATA/ATAPI controllers	
🖬 🖳 IEEE 1394 Bus host controllers	
🚽 🙀 Ricoh 1394 OHCI Compliant Host Controller	
> 🔚 Imaging devices	
Keyboards	
Mice and other pointing devices	
Monitors	
👂 🔮 Network adapters	
PCMCIA adapters	-

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**....



5. Choose the option to Browse my computer for driver software.



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

G	Update Driver Software - Ricoh 1394 OHCI Compliant Host Controller
	Browse for driver software on your computer
	Search for driver software in this location:
	E\ Browse
	Let me pick from a list of device drivers on my computer The lat-wit when installed driver software compatible with the device, and all driver contrare in the same category is the device.
	Next Cancel

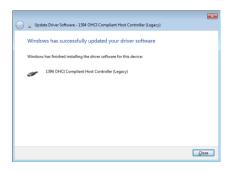
7. Select the Legacy bus driver that works with the E8491A/B:

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).

0	Update Driver Software - Ricoh 1394 OHCI Compliant Host Controller
	Select the device driver you want to install for this hardware.  Select the manufacturer and model of your hardware device and then click Net. If you have a disk that contains the driver you want to install, click Net. Dis.
	Show compatible hardware Model [1]1380 AHCI Compliant Host Controller [1]1561 CHCI Compliant Host Controller
	GRAcch 1384 CHCI Compliant Host Controller      Controller
	Next Cancel





Press Close.

8. 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.