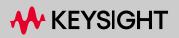
Keysight X-Series Signal Analyzers

Option PC8 and PC9 Processor Assembly Upgrade Windows 11



INSTALLATION NOTE

Notices

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Products Affected:	NFA N8973B NFA N8974B NFA N8975B NFA N8976B CXA N9000B EXA N9010B MXA N9020B PXA N9030B MXE N9038B UXA N9040B UXA N9041B PXE N9048B
To Be Performed By:	(X) Keysight Service Center (X) Advanced User () User
Estimated Installation Time: Estimated Adjustment and Verification Time:	1.0 Hours O Hours

This document provides detailed instructions for the installation of a processor assembly that has internal flash memory for storage of calibration data. Calibration data is updated each time the instrument is adjusted. The upgrade was ordered as N9094BU-PC8, or PC9 along with N9094BU-W11, and this kit installs the Option PC8, or PC9 processor assembly and disk drive. Please be sure to read this entire document before attempting to put this upgraded processor into use.

Contents

Quantity	Description
1	Installation Note
1	Processor Board Assembly with Programmed Solid State Disk Drive Assembly

Tools Required

- Torx Driver T-10
- USB Mouse
- USB Keyboard
- USB storage device with > 3 GB free memory

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Overview

This option provides an upgraded central processing unit (CPU) as well as a removable solid state disk drive imaged with Windows 11. This option could have been purchased for one of the following reasons:

1. To upgrade the instrument CPU.

2. To upgrade the instrument operating system when a CPU upgrade is also required

While there may be other reasons to have purchased this processor upgrade, this document will specifically cover the requirements needed for putting this new processor into use for the reasons listed above.

Instrument Configuration Data

The instrument model and serial numbers will not need to be transferred to the new disk drive while performing this upgrade, as the master copy of all of these is stored on the instrument A7 Midplane board assembly and will be automatically copied to the new disk drive when the instrument first boots up.

Instrument Calibration Data

With the disk drive being replaced the instrument calibration data will need to be transferred to the new disk drive during this upgrade process. Once the instrument calibration data has been transferred to the new disk drive the instrument performance will remain as it was prior to the upgrade.

NOTE

Should an incorrect version of the X Series calibration file be installed in an instrument, no error messages will be displayed. The instrument may however perform outside of the warranted specifications for that instrument. It is therefore extremely important to ensure that the instrument specific calibration data is properly copied onto this drive before the instrument is used for making any measurements.

License Keys

The license keys stored on the Midplane board assembly will be automatically copied to the new disk drive when the instrument first boots up.

User Data

This upgrade procedure does not cover the transferring of any user data from the existing disk drive to the new one. It is up to the end user to have backed up their data before sending it in for servicing.

Miscellaneous Considerations

Before using this processor assembly upgrade in any instrument there are two areas of concern that will need to be addressed.

1. The new disk drive included with this upgrade will have been shipped with the currently shipping version of the instrument software, which may be a different version from what is currently being used in the instrument for which it was purchased.

While an instrument may function properly with different software versions, the software stored on the different measurement boards within the instrument (FPGA code) may not be compatible with both versions. Also, the factory calibration data file used by the different instrument software versions could be incompatible.

2. The new disk drive included with this upgrade will have been shipped with a default factory calibration data file. Before using this drive the instrument specific calibration data file will need to be copied to it.

Even if the instrument software version that the new disk drive was shipped with is the same as what is in the instrument the instrument specific factory calibration data will still need to be copied and transferred onto the new disk drive.

Following the instructions included in this document closely will ensure that this new processor assembly will be properly configured for operation in the instrument being upgraded.

Installation Instructions

This section will outline what steps are required to properly configure the new processor assembly **before** putting it into use.

1. Power the instrument on and verify that it will not only boot up, but that the instrument application software will load properly. This would include verifying that there are no error messages displayed in the Status Bar of the application window.

If there are any problems with the instrument at this point, including the presence of any error messages, either repair the instrument prior to proceeding with this upgrade or make detailed notes of the instrument status in the space provided below and address them once this upgrade has been completed if they persist.

2. With the original processor assembly still installed in the instrument, determine what version of the instrument software is currently installed on it. For instructions on how to verify the currently installed software version see the Software Updates section in this document for instructions. Record the currently installed software version below.

Instrument S/W Revision: _____

- **3.** Determine FPGA Configuration (if possible). Press **System**, **Power On**, **FPGA Configuration**. Look for FPGA Configuration selection to appear. If FPGA Configuration does not appear continue on. If FPGA Configuration selection appears, check the box below corresponding to the currently loaded FPGA. See Figure 1.
 - [] Enhanced Sweep Speed
 - [] Time Domain Scan

Figure 1 FPGA Configuration Screen on Multi-Touch Analyzers

< Powe	er On	FPGA Configuration	って	?	X
	The FPGA has insufficient sp FPGA Load Preference Time Domain Scan Enhanced Sweep Speed Prompt at Startup	ace to fit all the licensed capabilities. Choose the functionality to be loaded into the FPGA. Time Domain Scan: Used by the EMC Application. If not loaded, the Time Domain Scan will not be available. Enhanced Sweep Speed: Used by swept measurements, implements the fast sweep capability in FPGA. If not loaded in FPGA, the fast sweep implemented in software. Prompt at Startup: When selected, this dialog is shown at every start up. Choose this if you frequently switch between capabilities and want to w want at every startup.			
		I FPGA will exit the X-Series software, launch the update FPGA program to load the selected FPGA, and then reboot the instrument. This process t be interrupted once started.	will take several		
		Selected FPGA Enhanced Sweep Speed Currently Loaded: T	me Domain Scar	1	

- 4. Backup the instrument factory calibration data to a USB storage device. See the Calibration Data Backup and Restore section in this document for instructions.
- **5.** Replace the original processor assembly with the assembly supplied with this kit. See the Processor Assembly Removal and Installation section in this document for instructions.
- 6. Turn the instrument on with the new processor assembly installed and see the Initializing the Instrument Operating System section in this document for instructions.
- 7. Ignore any hardware related error messages that might appear at this time, as they may be related to software version incompatibilities that will be resolved in the following steps of this procedure.
- 8. Determine what version of the instrument software is currently installed on the new processor assembly. Record the installed software version below.

Instrument S/W Revision: _____

 Compare the instrument software revision as recorded in step 8 to that which was recorded in step 2.

10.If the instrument software versions are exactly the same skip to step 11 in this procedure.

If the instrument software revision recorded in step 8 is older than that which was recorded in step 2 update the instrument software on the new processor assembly to the latest version. See the Software Updates section of this document for instructions on how to obtain and install the latest instrument software revision

If the instrument software revision recorded in step 8 is newer than that which was recorded in step 2 update the instrument FPGA code. See the FPGA Code Update section in this document for instructions on how this is done.

11.Restore the instrument factory calibration data that was previously backed up from the original processor assembly. See the Calibration Data Backup and Restore section in this document for instructions.



You will be restoring the calibration data to the SSD, and then backing up the data to the CPU internal flash memory.

If for some reason the instrument calibration data could not be successfully backed up and restored to the new processor assembly all of the instrument adjustments and performance verification testing must be performed to ensure that the instrument meets is specified performance parameters. See the Adjustments and Performance Verification section of this document for instructions on how this is done.

- **12.**Verify that the BIOS settings of the new processor assembly are configured properly. See the BIOS Setting Verification section of this document for instructions on how this is done.
- **13.**Cycle the instrument power and verify that the instrument will not only boot up, but that the signal analyzer application software will load properly. This would include verifying that there are no error messages displayed in the Status Bar of the application window.
- 14.The new processor contains an internal SD memory card, and it is necessary to create a backup of the calibration data to this SD card. This is required because some users may have procedures to back up calibration data to the SD card. Refer to the "Calibration Data Backup to SD Card" section on page 22 of this document for instructions on how this is done.
- **15.**The instrument is now ready for use.

Calibration Data Backup and Restore

In order for the instrument being upgraded to not need all of the instrument adjustments and performance verification tests to be run after this upgrade is completed the calibration data will need to be backed up onto an external drive prior to removing the existing processor / disk drive assembly.



While the backing up and restoring of the calibration data to the new disk drive will return the instrument performance to the state that it was prior to this upgrade this does not guarantee that all instrument performance parameters meet their specified values. A full instrument calibration would be required to verify this.

Data Backup

- 1. With the instrument turned on and the signal analyzer application running as normal, connect a USB mouse to one of the instrument USB ports.
- 2. Connect a USB memory device to one of the instrument USB ports.
- **3.** On the front panel of the instrument press **System**, **Alignments**, **Backup Restore Align Data...** If the message in Figure 2 appears, the Administrator password is Keysight4u!. Click **Yes**.

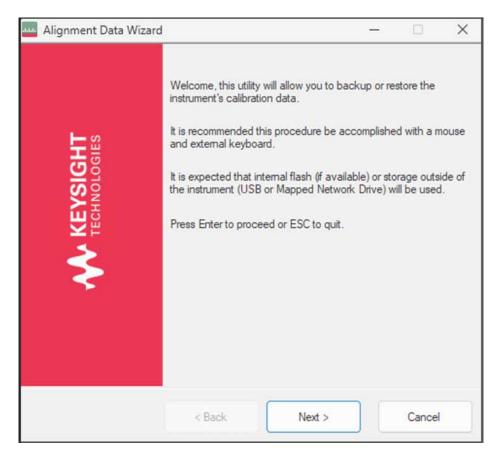
Figure 2 User Account Control

	control u want to allow the following program to make es to this computer?	
	Program name: Wizard Verified publisher: Keysight Technologies, Inc. File origin: Hard drive on this computer	
To continue,	type an administrator password, and then click Yes. Administrator Password	
KEYBOHT Managari	KeysightOnly	
Show <u>d</u> eta	ils <u>Y</u> es <u>N</u> o	

4. Click **OK** to close the analyzer program.

5. The Alignment Data Wizard window as shown in Figure 3 will appear.

Figure 3	Alignment Data Wizard
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- 6. Click Next.
- 7. Follow the on-screen instruction to **Backup** the calibration data to an external USB memory device. The file will be saved with a .bak or .bkz file suffix.
- 8. When the backup process completes, the instrument will reboot.

Calibration Data Restore to New Processor SSD

- 1. Close the signal analyzer application.
- 2. Connect a USB mouse and USB keyboard to two of the instrument USB ports.
- **3.** Connect the USB memory device that was earlier used to backup the instrument calibration data to one of the instrument USB ports.
- 4. Right-click the Windows Start icon and select File Explorer.
- 5. Navigate to C:\Program Files\Keysight\Signal Analysis\Infrastructure.
- 6. Locate and double-click on "BackupRestoreAlignDataWizard.exe".
- 7. The Alignment Data Wizard window as shown in Figure 3 will appear.
- 8. Follow the on-screen instruction to **Restore** the calibration data from the USB memory device.
- 9. When the **Restore** is completed, click **Finish**.
- 10.Double-click on "BackupRestoreAlignDataWizard.exe"
- **11.**The Alignment Data Wizard window as shown in Figure 3 will appear.
- 12.Follow the on-screen instruction to Backup.
- **13.**On the third screen, ensure the **Internal Flash** selection is checked.
- **14.**Click **Next** > and then **Save**.
- **15.**When the **Backup** is completed, click **Finish**.
- **16.**Remove the USB memory device.

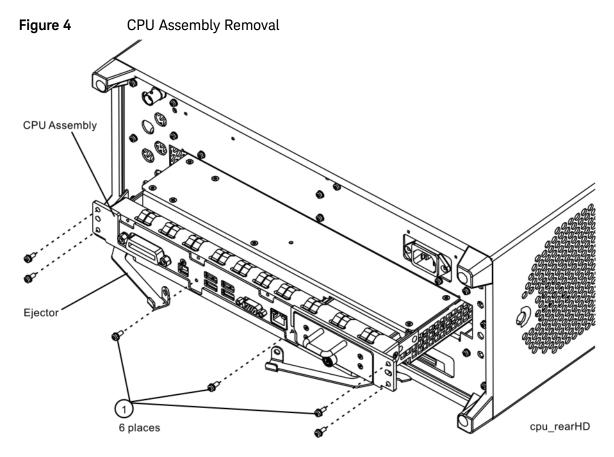
Processor Assembly Removal and Installation



Electrostatic discharge (ESD) can damage or destroy electronic components. All work on electronic assemblies should be performed at a static-safe workstation. Refer to the documentation that pertains to your instrument for information about static-safe workstations and ordering static-safe accessories.

Removal

- 1. Turn off the instrument and remove the power cord from the rear panel.
- 2. Refer to Figure 4. Remove the existing CPU assembly from the instrument by removing the 6 rear panel screws (1). The CPU assembly can be removed from the chassis by using the two ejectors to pull it straight out the back.



Installation

- 1. Refer to Figure 4. With the ejectors pulled out, slide the new CPU assembly into the slot at the rear of the instrument and push on the assembly to mate the connectors. Gently secure the CPU assembly to the instrument with the ejectors.
- **2.** Replace the six screws (1) that attach the CPU assembly to the chassis. Torque to 9 inch-pounds.

Initializing the Instrument Operating System



During the initial power-on process, the instrument may turn itself off and restart a number of times. This is normal and only happens during the initial installation process.



This process may take 20 minutes to complete.

- 1. Connect a mouse to one of the instrument USB ports.
- **2.** The Keysight Technologies screen appears followed by a screen that automatically loads the operating system.
- 3. Several windows appear regarding getting devices ready and first boot customizations.
- **4.** The License Agreement dialog box as shown in Figure 5 appears, providing information regarding the instrument software licensing.

Figure 5License Agreement Dialog Box

Software End User License Agreement.	
KEYSIGHT SOFTWARE END-USER LICENSE AGREEMENT	^
ATTENTION: THIS SOFTWARE IS SUBJECT TO THE END-USER LICENSE AGREEMENT ("EULA") SET FORTH BELOW.	E
TO INSTALL OR USE THE SOFTWARE, YOU MUST FIRST AGREE TO THE EULA BELOW. IF THE EULA IS PRESENTED TO YOU ELECTRONICALLY AND IF YOU HAVE READ, UNDERSTAND AND AGREE TO BE BOUND BY THE TERMS OF THE EULA, CLICK "AGREE". IF THE EULA IS PRESENTED TO YOU IN A HARD COPY FORMAT, BY POWERING ON AND USING THE INSTRUMENT OR MACHINE, YOU AGREE THAT YOU HAVE READ, UNDERSTAND AND AGREE TO BE BOUND BY THE TERMS OF THE EULA. IF YOU DO NOT AGREE TO BE BOUND BY THE TERMS OF THE EULA, CLICK "DO NOT AGREE" OR IF APPLICABLE, DO NOT POWER ON OR USE THE INSTRUMENT OR MACHINE. IF YOU HAVE PURCHASED THE SOFTWARE FROM KEYSIGHT AND DO NOT AGREE TO BE BOUND BY THE TERMS OF THE EULA, YOU MAY RETURN THE SOFTWARE FROM KEYSIGHT AND DO NOT AGREE TO BE BOUND BY THE TERMS OF THIS EULA, YOU MAY RETURN THE SOFTWARE FROM ACYSIGHT AND DO NOT AGREE TO BE BOUND BY THE TERMS OF THIS EULA, YOU MAY RETURN THE SOFTWARE FOR A FULL REFUND, OR, IF THE SOFTWARE IS SUPPLIED AS PART OF ANOTHER PRODUCT, YOU MAY RETURN THE ENTIRE PRODUCT FOR A FULL REFUND.	
SOFTWARE RETURNS AFTER CLICKING AGREE OR, IN THE CASE OF A HARD COPY EULA, POWERING ON AND USING THE EQUIPMENT, ARE SUBJECT TO KEYSIGHT APPROVAL AND APPLICABLE CHARGES.	
 Translations. Translations of this EULA are found at: <u>www.kevsipht.com/find/sweula</u> Software. "Software" means a single copy of one or more computer programs, whether stand-alone or bundled with other products, and related documentation, data and license files. License Grant. Keysight Technologies ("Keysight") grants you a limited, non-exclusive license to use, in accordance with one of the license types listed below, the Software only on the Term (as defined below), subject to the terms and conditions herein: Fixed ("node locked") license. If you have obtained a fixed license, you may install one copy of the Software on one instrument or machine and use the Software only on that instrument or machine for your internal business use. Transportable license. If you have obtained a transportable license, you may use one copy of the Software on any single instrument or machine at one time for your internal business use. You may move such Software to a different instrument or machine for your internal business use provided only one copy is in use at any one time. Floating ("concurrent use") license. If you have obtained a floating license, you may install one or more copies of the Software on any instrument or machine within your internal computer network for your internal business use provided the total number of users who are accessing and/or using any of the Software at the same time does not exceed the maximum number of authorized users. "You may find the type of license you obtained, the Term of your license, and the authorized number of users (if applicable) in documentation associated with the Software. "Term" means either a set amount of time (an expiring license) or a Perpetual license. "Perpetual" means the lifetime of the instrument or machine. In the absence of documentation specifying the applicable license, you have a fixed license, why have a fixed license with a Deventual Term. 	÷
I have reviewed and agree to comply with the terms in this software license agreement.	
Agree Do Not Agree	

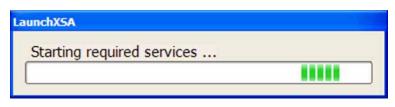
Select **Agree** to continue, or **Do Not Agree** to turn off the instrument before initializing the software.



After launching the setup, do not turn off the instrument or remove power before the setup routine completes and the system restarts. Turning off the instrument may corrupt the system and the instrument software may need to be recovered.

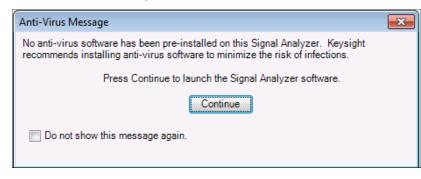
- **5.** A message may appear that more recent calibration data is available. Select Yes and follow on-screen prompts to load data from back up file.
- **6.** After the instrument restarts, a status window as shown in Figure 6 appears while the instrument application software loads:

Figure 6 Application Launch Status Window



7. The anti-virus notification as shown in Figure 7 will then appear.

Figure 7 Anti-Virus Message



NOTE

If you do not check the "Do not show this message again" check box, this message will be displayed each time the instrument is turned on. No application will start while this message is displayed. Before continuing, make sure that you carefully read the Anti-Virus message and determine what action is appropriate.

8. Select Continue.

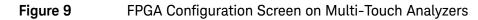
9. Once the instrument application software completes loading the instrument initialization will be completed.

A screen will appear as shown in Figure 8. The instrument may reboot one more time, and then the initialization will be complete.



Figure 8 Instrument Initialization

10.If the screen in Figure 9 appears, refer to page 8 step 3 to determine which FPGA was loaded when the original SSD was installed. Use this information to determine what is selected under "FPGA Load Preference" and "Selected FPGA" fields in the configuration screen. Click Load FPGA button if you selected a different FPGA than shown in the "Currently Loaded:" text.



Power On		FPGA Config	guration	5	?	X
The FPGA has insufficient	space to fit all the licensed capabilities.	Choose the functionality to be loade	d into the FPGA.			ļ
Time Domain Scan Enhanced Sweep Speed Prompt at Startup Load FPGA	Enhanced Sweep Speed: Used by Implemented in software. Prompt at Startup: When selected, want at every startup.	this dialog is shown at every start u	the fast sweep capability in FP p. Choose this if you frequently	GA. If not loaded in FPGA, the fast sweep capability will y switch between capabilities and want to verify which yo		
	led FPGA will exit the X-Series software not be interrupted once started. Selected FPGA	, launch the update FPGA program	to load the selected FPGA, an	d then reboot the instrument. This process will take sever		
	2	Load FPGA				

Software Updates

The currently installed instrument software version can be easily determined by pressing the following front panel keys:

System, Show, System

The software revision can be found on this screen as the:

Instrument S/W Revision

Updating the Instrument Software:

If an instrument software update is required, the latest revision of the X-Series signal analyzer software may be downloaded from:

http://www.keysight.com/find/xseries_software

FPGA Code Compatibility

One of the main reasons that the instrument application software must be the same version on all disk drives used in a particular instrument, in addition to factory calibration data compatibility issues, is that there is FPGA program code on multiple assemblies inside the instrument that must be compatible with the version of instrument software being used. The only way to ensure compatibility for all disk drives is to use the same instrument application software on all drives.

FPGA Code Update

There is FPGA program code on many different assemblies inside of the instrument, and all of these must be a compatible version with the instrument software revision. In order to ensure that this requirement is met you need to either install the latest software version on all disk drives used with the instrument or run an FGPA update program. If this program detects that there are assemblies that need to be updated it will updated them to the correct version.

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CAUTION
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Once you start the FPGA programming process you MUST NOT interrupt the process for any reason. This would include turning the instrument off or unplugging the power cord to the instrument. Doing so will result in an inoperative instrument, requiring the affected assembly to be replaced.

Updating the Instrument FPGA Code

- 1. Close the XSA application by clicking on the **System** hardkey or tapping the gear icon and then selecting **Exit Program**.
- 2. Connect a USB mouse and keyboard to available instrument USB ports.
- 3. Using the mouse, select Start, File Explorer. Navigate to the following folder:

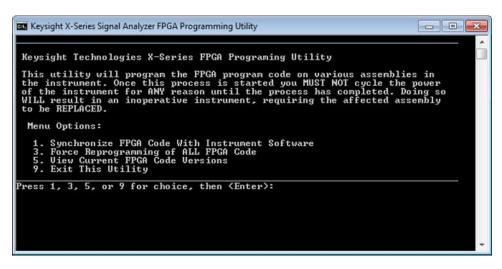
C:\Program Files\Agilent\SignalAnalysis\Physics

4. In this folder find and execute the file named:

FPGA_Prog.bat

5. The FPGA Programming Utility will start and a window as shown in Figure 10 will appear.

Figure 10 FPGA Programming Utility



- 6. To program the FPGA code enter 1 and press Enter. You will need to confirm this selection by selecting 1 and Enter one more time.
- 7. The programming of the FPGA code could take a few minutes to complete. Once it has finished the instrument will reboot itself to use the new code.

BIOS Setting Verification

The default boot device used by the instrument CPU BIOS must be verified and may require changing when the CPU assembly is replaced. This setting needs to be correct in order for the instrument to always boot up correctly.

Since the different CPU assembly options available for the X-Series signal analyzers could have different CPU BIOS versions the exact instructions for each of these may be slightly different. However, the instructions below should give general enough directions needed to verify that this is correct for any version.

Verifying Boot Priority

- 1. Connect a USB keyboard and mouse to two of the instrument USB ports.
- 2. Turn the instrument power on.
- 3. Confirm Keysight Technologies splash screen comes up within a few seconds.
- 4. The splash screen should display instructions as to what key to press to enter the BIOS Setup utility. Press it while the Keysight Technologies splash screen is still displayed.

Typical key used to enter the BIOS Setup utility is: Delete (DEL)

- 5. Using the keyboard or instrument arrow keys navigate to the Boot tab in the BIOS Setup utility.
- 6. Verify that the #1 boot device is set to the internal instrument disk drive, Micron SSD for example, and not to a USB device.
- 7. Once the #1 boot device is set to the internal disk drive exit the BIOS Setup utility by selecting Save & Exit, and press Enter.

Adjustments and Performance Verification

Adjustments and performance verification testing requires the use of the calibration software. The latest software information and downloads are available at:

http://www.keysight.com/find/calibrationsoftware



The X-Series Signal Analyzer Calibration Files are located on the disk drive. Therefore, replacement of the disk drive will invalidate the current instrument calibration if the original calibration file has not been backed-up and restored. However, a full calibration is required to assure that the instrument meets all specifications. Arrangements regarding the level of calibration must be made between the end user and the calibration provider.

Adjustments Required

All (if the Calibration data file could not be backed-up and restored).

None (if the Calibration data file was backed-up and restored).

Performance Testing Required

All (if the Calibration data file could not be backed-up and restored).

None (if the Calibration data file was backed-up and restored).

Calibration Data Backup to SD Card

The PC8 and PC9 processor assemblies contain an internal SD card for the purpose of providing a backwards compatible location to back up the calibration data. After the new processor assembly is installed and the calibration data from the previously installed processor assembly has been restored (or after the appropriate adjustments have been performed if the previous calibration data could not be restored), another backup should be performed, this time to the SD card.

- 1. Remove any USB memory devices from the instrument.
- 2. With the instrument turned on and the signal analyzer application running as normal, press System, Alignments, Backup/Restore Align Data.
- 3. If prompted for an administrator password, enter Keysight4u!.
- 4. Click **OK** to close the analyzer program.
- 5. Select External Removable Drive, even though the removable SD card is located internally in the instrument.
- 6. The Alignment Data Wizard window as shown in Figure 3 on page 11 will appear. Click Next.
- 7. Select Backup.
- 8. Follow the on-screen instructions to backup the calibration data to the internal SD card, which will appear as the F: drive. The Alignment Data Wizard should default to F:/ Alignment Backup... The file will be saved with a .bkz file suffix.
- 9. Create a directory if prompted.

10.Click Save.

11.After the backup has been completed, the signal analyzer application will be restarted.

For assistance, contact your nearest Keysight Technologies Sales and Service Office. To find your local Keysight office access the following URL:

http://www.keysight.com/find/assist



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