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# Keysight N9042B Signal Analyzer

Option EXW  
External Mixing, Wide Bandwidth

# Notices

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# Option EXW Upgrade

Products Affected:	N9042B UXA Signal Analyzer
Serial Numbers:	All
Options Required:	None
To Be Performed By:	(X) Keysight Service Center (X) Advanced User ( ) User
Estimated Installation Time:	0.5 Hours
Estimated Adjust and Test Time:	1.0 Hour

## Option EXW Upgrade

### Introduction

Option EXW, External Mixing, Wide Bandwidth allows the instrument to be used with the V3050A Signal Analyzer Frequency Extender.

All N9042B signal analyzers have the front panel High LO Out, High IF In, and USB-C ports that the V3050A connects to, however a license is required to enable operation with the V3050A.

This installation note provides instructions for licensing Option EXW on the N9042B. No instructions are provided on the configuration and use of the V3050A Frequency Extender.

### Requirements

- Instrument software revision must be A.30.13 or later

#### NOTE

1. The latest revision of the X-Series signal analyzer software may be downloaded from:  
[https://www.keysight.com/find/n9042b\\_software](https://www.keysight.com/find/n9042b_software)
2. This option is licensed for one instrument model/serial number combination. The license key will only install on the designated instrument.
3. At the time of manufacture the hardware related to this option was fully adjusted and the option performance was verified to be within its warranted specifications. Within one year of the initial calibration date of the instrument this option is fully calibrated with no further adjustment or verification testing.  
  
To determine the initial calibration date, locate the original calibration certificate that was shipped with the instrument at the time of purchase. The Date of Calibration is printed on the original calibration certificate.

### Contents

Quantity	Description
1	Installation Note
1	Option Upgrade Entitlement Certificate

### Tools Required for Installation

- Personal computer with internet access and USB port
- USB storage device

## Installation Procedure

### Analyzer Information

- 1. Connect a power cord to the analyzer and turn on the analyzer.
- 2. After the analyzer has completed turning on, press **System, Show System**. Make note of the following information from the Show System screen:

Product Number \_\_\_\_\_

Instrument S/W Revision \_\_\_\_\_

- 3. Refer to the data in **step 2** above. Verify that the Product Number in **step 2** is appropriate for the upgrade being installed:

Kit to be Installed	Product Number (Step 2)
N9042BU-EXW	N9042B

If the Product Number in **step 2** is not appropriate for the Option EXW upgrade, **do not proceed** with the installation.

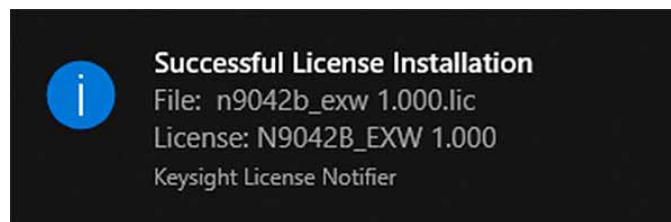
- 4. Refer to the data in **step 2** above. If the instrument software is earlier than A.30.13, you must upgrade to version A.30.13 or later. Keysight recommends that you update to the latest instrument software version to ensure that you have the latest defect fixes. To check the latest instrument software version, visit the following website:

[https://www.keysight.com/find/n9042b\\_software](https://www.keysight.com/find/n9042b_software)

## Installation Procedure over USB

1. Locate the Option Upgrade Entitlement Certificate from the kit.
2. Redeem the Option Upgrade Entitlement Certificate by following the instructions on the Certificate.
3. After redeeming your Option Upgrade Entitlement Certificate you will receive an email with an attached License File.
4. Locate a USB storage device. Perform a virus scan on this device before use.
5. Save the License File to the root directory of the USB Storage Device.
6. Connect the USB Storage Device to the signal analyzer USB port.
7. The signal analyzer will automatically consume the License File. (This may take a few minutes) When the License File is consumed the Keysight License Manager will display a “Successful License Installation” message as shown in **Figure 1**.

**Figure 1** Successful License Installation



## Alternate Installation Procedure

The License File can be manually installed over USB or LAN by placing the license file in the following folder on the signal analyzer

C:\Program Files\Agilent\licensing

## Verify the Installation

1. Cycle the power on the signal analyzer.
2. Press **System, Show System** to display a list of installed options.
3. Verify that the newly installed option N9042B-EXW, External Mixing, Wide Bandwidth appears on the list.

## Utilities, Adjustments, and Performance Verification Tests

Calibration Software and specified test equipment is required to perform the adjustments, and can be used to automate the performance verification testing. Information on how to obtain this software can be found at:

<https://www.keysight.com/find/calibrationsoftware>

### Utilities Required

None

### Adjustments Required

Hi IF Adjustment

LO Output Power EXW Adjustment

### Performance Testing Required

IF Input Gain Accuracy EXW

**A full calibration is required to assure the instrument meets all specifications.**

The end user must ultimately determine whether they want a full calibration to be performed after the installation of this upgrade or not. If a full calibration is required, arrangements regarding the level of calibration must be made between the end user and the calibration provider.

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

<https://www.keysight.com/find/assist>



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