

Keysight Licensed Functionality Upgrade Kit

For ALL License-Enabled Options
For ALL N523xA Microwave Network Analyzers

NOTICE: This document contains references to Agilent Technologies. Agilent's former Test and Measurement business has become Keysight Technologies. For more information, go to www.keysight.com.



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Getting Assistance from Keysight

By internet, phone, or fax, get assistance with all your test and measurement needs.

Contacting Keysight

Assistance with test and measurements needs and information on finding a local Keysight office are available on the Web at:

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

If you do not have access to the Internet, please contact your Keysight field engineer.

NOTE In any correspondence or telephone conversation, refer to the Keysight product by its model number and full serial number. With this information, the Keysight representative can determine whether your product is still within its warranty period.

About Installing the Upgrade

Products affected	All N523xA microwave network analyzers
Installation to be performed by	Keysight service center, personnel qualified by Keysight, or customer
Estimated installation time	5 minutes
Estimated verification time	5 minutes

Items Included in the Upgrade Kit

Check the contents of your kit against the following list. If any of these items is missing, contact Keysight Technologies. Refer to [“Getting Assistance from Keysight” on page 3](#).

Table 1 Contents of Upgrade Kit

Quantity	Description	Part Number
1	Installation Note (this document)	N5235-90110
1	Option Entitlement Certificate	5964-5145

List of Upgrades to Which This Installation Note Applies

This installation note applies to all of the upgrades in the following list. Do not be alarmed if your upgrade does not appear in the list. Additional upgrades may have been introduced since this document was printed.

If your upgrade kit contains only a Option Entitlement Certificate and this installation note, the instructions contained here will allow you to install your upgrade.

- 007 - Add automatic fixture removal
- 010 - Add time domain operation
- 015 - Add dynamic uncertainty for S-parameter measurements
- 080 - Add frequency offset
- 082 - Add scalar-calibrated converter measurements
- 090 - Add spectrum analyzer application
- 095 - Add vector spectrum analyzer application
- 301 - Add application for use with standard CalPods
- 302 - Add application for use with temperature-characterized CalPods
- 304 - Add CalPod as ECal Capability
- 551 - Add N-port calibrated measurements
- 897 - Add perpetual Keysight inclusive calibration
- 898 - Add perpetual standards compliant calibration

License Key Redemption

NOTE The enclosed Option Entitlement Certificate is a receipt, verifying that you have purchased a licensed option for the analyzer of your choice. You must now use a Keysight Web page to request a license key for the instrument that will receive the option.

To enable the option product(s), you must request license key(s) from:

<http://www.keysight.com/find/softwarelicense>

To complete the request, you will need to gather the following information:

- From the certificate
 - Order number
 - Certificate number
- From your instrument(s)
 - Model number
 - Serial number
 - Host ID

The instrument information is available in the network analyzer - press **Help** , then click About Network Analyzer.

If you provide an email address, Keysight will promptly email your license key(s). Otherwise, you will receive your license key(s) via postal mail.

Installation Procedure for the Upgrade

Installation Requirements

- The network analyzer must be in proper working condition prior to installing this option. Any necessary repairs must be made before proceeding with this installation.
- This installation does not require removal of the analyzer's protective outer covers.
- The analyzer must be powered up and operating to perform this installation. The Network Analyzer program must be running.
- This installation requires that a keyboard and a mouse be connected to the network analyzer.

Verify the Serial and Option Numbers

Refer to the license message you received from Keysight:

- Verify that the analyzer's model and serial numbers match those on the license message you received from Keysight.

If the model number, serial number, or option number do not match those on the license message you received from Keysight, you will not be able to install the option. If this is the case, contact Keysight for assistance. Refer to ["Getting Assistance from Keysight" on page 3](#).

Enable the Option

1. Press **System** , then **Service** , then **Option Enable** .
2. In the **Select Desired Option** list, click the option listed on the license message you received from Keysight. For example **080 - Frequency Offset**.
3. Using the keyboard, enter the license key in the box provided. The license key is printed on the license message you received from Keysight. Enter this key *exactly* as it is printed on the message.
4. Click **Enable**.
5. Click **Yes** in answer to the displayed question in the **Restart Analyzer?** box.
6. When the installation is complete, click **Exit**.

Verify that the Option Is Enabled

Once the analyzer has restarted and the Network Analyzer program is again running:

1. On the toolbar, click **Help**, then click **About Network Analyzer**.
2. Verify that the option you enabled is listed after "Options:" in the display. Click **OK**.

NOTE If the option has not been enabled, perform the ["Enable the Option"](#) procedure again. If the option is still not enabled, contact Keysight Technologies. Refer to ["Getting Assistance from Keysight" on page 3](#).

This information is subject to change without notice.

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