

# Installation Note

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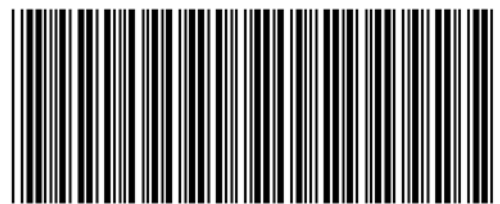
## Licensed Functionality Upgrade Kit

**For ALL License-Enabled Options  
for ALL N522xA Microwave Network Analyzers**



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N5225-90110

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## Getting Assistance from Agilent

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

### Contacting Agilent

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

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

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

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

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## About Installing the Upgrade

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| Products affected. . . . .                | All N522xA microwave network analyzers                              |
| Installation to be performed by . . . . . | Agilent service center, personnel qualified by Agilent, or customer |
| Estimated installation time . . . . .     | 5 minutes   |
| Estimated verification time . . . . .     | 5 minutes   |

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## Items Included in the Upgrade Kit

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

**Table 1 Contents of Upgrade Kit**

| Quantity | Description                       | Part Number |
|----------|-----------------------------------|-------------|
| 1        | Installation Note (this document) | N5225-90110 |
| 1        | Option Entitlement Certificate    | 5964-5145   |

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## 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.

- 008 - Add pulsed-RF measurements
- 010 - Time domain operation
- 020 - Add IF inputs for antenna and mm-wave
- 021 - Add pulse modulator to internal 1st source
- 022 - Add pulse modulator to internal 2nd source
- 025 - Add four internal pulse generators
- 028 - Add noise figure measurements using standard receivers
- 080 - Frequency offset
- 082 - Scalar-calibrated converter measurements
- 083 - Frequency converter measurements
- 084 - Add embedded LO application
- 086 - Add gain compression application
- 087 - Intermodulation distortion application
- 088 - Source phase control
- 118 - Add fast CW mode
- 301 - Add application for use with standard CalPods
- 302 - Add application for use with temperature-characterized CalPods
- 303 - Add multiport capability for CalPods
- 460 - Add integrated TMSA application
- 551 - Add N-port calibrated measurements
- 897 - Perpetual Agilent inclusive calibration
- 898 - Perpetual standards compliant calibration

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## License Key Redemption

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**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 an Agilent Web page to request a license key for the instrument that will receive the option.

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To enable the option product(s), you must request license key(s) from: <http://www.agilent.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, Agilent will promptly email your license key(s). Otherwise, you will receive your license key(s) via postal mail.

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# 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 Agilent:

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

If the model number, serial number, or option number do not match those on the license message you received from Agilent, you will not be able to install the option. If this is the case, contact Agilent for assistance. Refer to [“Getting Assistance from Agilent” 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 Agilent. 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 Agilent. 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**.

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

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